Montana Tech Library
Digital Commons @ Montana Tech

Silver Bow Creek/Butte Area Superfund Site | Montana Superfund

Spring 4-8-2022

Butte Priority Soils Operable Unit (BPSOU) Silver Bow Creek/Butte Area NPL Site

Atlantic Richfield Company

Follow this and additional works at: https://digitalcommons.mtech.edu/superfund_silverbowbutte

Part of the Environmental Health and Protection Commons, Environmental Indicators and Impact Assessment Commons, and the Environmental Monitoring Commons

Atlantic Richfield Company

317 Anaconda Road
Butte MT 59701

Josh Bryson
Liability Manager

Direct (406) 782-9964
Fax (406) 782-9980

April 8, 2022

Nikia Greene
Remedial Project Manager
US EPA Region 8 Montana Office,
Federal Bldg., 10 W. 15th St., Suite 3200
Helena, Montana 59626

Erin Agee, Senior Assistant Regional Counsel
Mail Code 8 ORC_LE_C
Office of Regional Counsel - CERCLA
1595 Wynkoop Street
Denver, Colorado 80202

Daryl Reed
DEQ, Project Officer
P.O. Box 200901
Helena, Montana 59620-0901

Jonathan Morgan, Esq.
DEQ, Legal Counsel
P.O. Box 200901
Helena, Montana 59620-0901

RE: Butte Priority Soils Operable Unit (BPSOU) Draft 2021 Site-Wide Surface Water Monitoring Data Summary Report. Consent Decree- Civil Action No. CV 89-039-BU-SHE.

Agency Representatives:

I am writing to you on behalf of Atlantic Richfield Company to submit the BPSOU Silver Bow Creek/Butte Area NPL Site Draft 2021 Site-Wide Surface Water Data Summary Report for your review and approval. The report summarizes interim site-wide surface water, sediment, habitat, and benthic macroinvertebrate monitoring conducted in 2021. The report and appendices may be downloaded at the following link:

BPSOU Draft 2021 Site-Wide Surface Water Monitoring Data Summary Report

If you have any questions or comments, please call me at (406) 723-1834.

Sincerely,

Josh Bryson, PE, PMP
Liability Manager & Global Risk Champion
Remediation Management Services Company
An affiliate of **Atlantic Richfield Company**

Cc: Josh Bryson / Atlantic Richfield - email
Dave Griffis / Atlantic Richfield - email
Chris Greco / Atlantic Richfield - email
Irene Montero / Atlantic Richfield - email
Jean Martin / Atlantic Richfield - email
Loren Burmeister / Atlantic Richfield - email
Mike McAnulty / Atlantic Richfield - email
Don Booth / Booth Consulting - email
David Gratson / Environmental Standards, Inc. - email
Mave Gasaway / Davis, Graham & Stubbs, LLP - email
Brianne McClafferty / Holland & Harp LLP - email
Erin Agee / EPA - email
Nikia Greene / EPA - email
Joe Vranka / EPA - email
James Freemen / DOJ - email
John Sithers / DOJ - email
Carolina Balliew / DEQ - email
Dave Bowers / DEQ - email
Daryl Reed / DEQ - email
Jenny Chambers / DEQ - email
Matthew Dorrington / DEQ - email
William George / DEQ - email
Harley Harris / NRDP - email
Jim Ford / NRDP - email
Katherine Hausrath / NRDP - email
Meranda Flugge / NRDP - email
Pat Cuneen / NRDP - email
Ted Duaime / MBMG - email
Gary Icopini / MBMG - email
Becky Summerville / Inland - email
John Gilmour / Union Pacific - email
Kristen Stevens / Union Pacific - email
Robert Bylsma / Union Pacific - email
Brooke Kuhl / BNSF - email
Leo Berry / BNSF - email
Mark Engdahl / BNSF - email
Robert Lowry / BNSF - email
Annika Silverman / Kennedy Jenks - email
Jeremie Maehr / Kennedy/Jenks - email
Brad Gordon / RARUS - email
Harrison Roughton / RARUS - email
Matthew Mavrinac / RARUS - email
Abigail Peltomaa / BSB - email
Brandon Warner / BSB - email
Chad Anderson / BSB - email
Eric Hassler / BSB - email

Gordon Hart / BSB - email
Jeremy Grotbo / BSB - email
JP Gallagher / BSB - email
Julia Crain / BSB - email
Karen Maloughney / BSB - email
Mark Neary / BSB - email
Sean Peterson / BSB - email
Alice Drew-Davies / TREC, Inc. - email
Craig Deeney / TREC, Inc. - email
Scott Bradshaw / TREC, Inc. - email
Adam Logar / Pioneer Technical Services, Inc. - email
Andy Dare / Pioneer Technical Services, Inc. - email
Brad Archibald / Pioneer Technical Services, Inc. - email
Joe Mcelroy / Pioneer Technical Services, Inc. - email
Karen Helfrich / Pioneer Technical Services, Inc. - email
Leesla Jonart / Pioneer Technical Services, Inc. - email
Pat Sampson / Pioneer Technical Services, Inc. - email
Randa Colling / Pioneer Technical Services, Inc. - email
Ross Monasmith / Pioneer Technical Services, Inc. - email
Josh Vincent / WET - email
CTEC of Butte / CTEC - email
Curt Coover / CDM - email
David Shanight / CDM - email
Ian MaGruder / WWC - email
Peter Haun / WWC - email
Scott Juskiewicz / Montana TECH Library - email

File: MiningSharePoint@bp.com - email
BPSOU SharePoint – upload

Butte Priority Soils Operable Unit (BPSOU)
Silver Bow Creek/Butte Area NPL Site

Draft 2021 Site-Wide Surface Water Data Summary Report

Normal Flow, Wet Weather, and Diagnostic Surface Water, Sediment, BMI, and Habitat Monitoring
January 2021 – December 2021

Atlantic Richfield

April 2022

TABLE OF CONTENTS

Page

1.0 Introduction 5
1.1 Objectives 5

2.0 Monitoring Summary 8
2.1 Normal Flow and Wet Weather Monitoring 8
2.2 Diagnostic SW Monitoring 8
2.3 Sediment Monitoring 9
2.4 BMI and Habitat Monitoring 9
2.5 Data Quality Objectives and Assessment 9
2.5.1 Data Quality Objectives 9
2.5.2 Data Quality Assessment 10
2.6 General Monitoring Activities 10
2.6.1 Normal Flow and WW 10
2.6.2 Diagnostic SW Monitoring 13
2.6.3 Sediment, Habitat, and BMI Monitoring 13

3.0 Data Summary 14
3.1 Normal Flow and WW 14
3.1.1 Normal Flow Monitoring 14
3.1.2 Wet Weather Monitoring 15
3.1.3 Stream Stage and Flow Monitoring 15
3.1.4 Precipitation Data 16
3.2 Diagnostic Monitoring 16
3.2.1 Water Quality Monitoring 16
3.2.2 Diagnostic Level and Flow Monitoring 17
3.3 Sediment Monitoring 17
3.4 BMI and Habitat Monitoring 18

4.0 Deviations 18
4.1 Normal Flow and WW 18
4.2 Diagnostic 19
4.3 Sediment 19
4.4 BMI and Habitat 19

5.0 References 20

LIST OF TABLES

Table 1 – BPSOU Creek Monitoring Performance Criteria
Table 2 – Sediment Probable Effects Concentrations
Table 3 – BPSOU Surface Water Monitoring Stations 2008-2021
Table 4 – BPSOU 2021 Surface Water Monitoring Stations – Diagnostic
Table 5 – BPSOU 2021 Sediment and BMI Monitoring Stream Reaches
Table 6 – BPSOU 2021 BMI and Habitat Location Coordinates
Table 7 – BPSOU 2021 Climate Station Precipitation
Table 8 – BPSOU 2021 Surface Water Monitoring Sampler Stage Heights
Table 9 – BPSOU 2021 Normal Flow Water Results
Table 10 – BPSOU 2021 Surface Water Monitoring Sample Collection Matrix – Wet Weather
Table 11 – BPSOU 2021 Wet Weather Results
Table 12 - BPSOU 2021 Surface Water Sample Collection Matrix - Diagnostic
Table 13 – BPSOU 2021 Diagnostic Water Quality Results
Table 14 – BPSOU 2021 Sediment Analytical Results
Table 15 – BMI Community Metrics Definitions
Table 16 – BPSOU 2021 BMI Taxa
Table 17 – BPSOU 2021 BMI Community Metrics
Table 18 - BPSOU 2021 BMI Taxa Tolerance Levels
Table 19 – BPSOU 2021 BMI in-situ Parameters

LIST OF FIGURES

Figure 1 – BPSOU 2021 Surface Water Monitoring Stations
Figure 2 – BPSOU 2021 Surface Water Monitoring Network Schematic Diagram
Figure 3 – BPSOU 2021 Climate Map - Vicinity Climate Stations
Figure 4 – BPSOU 2021 Surface Water 2021 Monitoring Stations - Diagnostic
Figure 5 – BPSOU 2021Surface Water Monitoring Network Schematic Diagram - Diagnostic
Figure 6 – BPSOU 2021 Sediment, BMI, and Habitat Monitoring Locations
Figure 7 – BPSOU 2021 Climate Station Daily Precipitation

LIST OF APPENDICES

Appendix A Normal Flow and Wet Weather Data Quality Objectives and Assessment
Appendix B BTC and SBC Stage and Flow Hydrographs and Continuous Data
Appendix C BTC and SBC Stage-Discharge Relationships and Discharge Ratings
Appendix D Normal Flow and Wet Weather Data
Appendix E Wet Weather Diagnostic Data Quality Objectives and Assessment
Appendix F Wet Weather Diagnostic Flow Hydrographs
Appendix G Wet Weather Diagnostic Data
Appendix H Sediment Monitoring Field Sheets
Appendix I Sediment Data Quality Objectives and Assessment
Appendix J Sediment Data
Appendix K Habitat Monitoring Field Sheets
Appendix L BMI Data

ABBREVIATIONS AND ACRONYMS

ARAR	Applicable Relevant and Appropriate Requirements
AV	Area-Velocity
BMFOU	Butte Mine Flooding Operable Unit
BMI	Benthic Macroinvertebrate
BMMA	Bert Mooney Municipal Airport
BMP	Best Management Practices
BPSOU	Butte Priority Soils Operable Unit
BTC	Blacktail Creek
BTL	Butte Treatment Lagoons
CD	Consent Decree
CFRSSI	Clark Fork River Superfund Site Investigations
COC	Contaminant of Concern
DM	Data Management
DOC	Dissolved Organic Carbon
DQA	Data Quality Assessment
DQO	Data Quality Objectives
DSR	Data Summary Report
DSWMP	Butte Hill Diagnostic Surface Water Monitoring Plan
DVP	Data Validation Plan
EMAP	Environmental Monitoring and Assessment Program
EPA	U.S. Environmental Protection Agency
EWI	Equal Width Increment
FG	Field Grab
FRE	Further Remedial Elements
ID	Identification
LAO	Lower Area One
NH3	Ammonia
NPL	National Priorities List
OU	Operable Unit
PEC	Probable Effects Concentration
pH	negative log of the hydrogen concentration
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RAO	Remedial Action Objectives
RBP	Rapid Bioassessment Protocol
RG	Remedial Goals
ROD	Record of Decision
RODA	Record of Decision Amendment
RSD	Relative Standard Deviation

SBC	Silver Bow Creek
SCADA	Supervisory Control and Data Acquisition
SNOTEL	Snowpack Telemetry
SOP	Standard Operating Procedure
SW	Surface Water
SWE	Snow Water Equivalent
TDS	Total Dissolved Solids
TKN	Total Kjeldahl Nitrogen
TOC	Total Organic Carbon
TSS	Total Suspended Solids
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

1.0 INTRODUCTION

This Data Summary Report (DSR) presents surface water, sediment, habitat, and benthic macroinvertebrate (BMI) data collected on behalf of Atlantic Richfield between January 1, 2021 and December 31, 2021 in general compliance with the Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan 2020 and 2021 Monitoring Period (QAPP) (Atlantic Richfield, 2020). Surface water monitoring occurred during normal flow and wet weather conditions. Normal flow exists in the absence of snowpack or precipitation runoff. The Record of Decision, Butte Priority Soils Operable Unit, Silver Bow Creek/Butte Area NPL Site (2006 ROD) (USEPA, 2006) defined wet weather conditions as flow greater than 50 cfs at SS-07 and greater than 35 cfs at SS-04. These criteria continue to be loosely applied, but adjustments were made to account for inputs from the Butte Mine Flooding Operable Unit (BMFOU) Pilot Project discharge, periods of prolonged high flows, and periods of sustained low flows. Wet weather monitoring did not occur during winter months due to freezing conditions and the low potential for wet weather flows.

Sediment, habitat, and BMI monitoring occurred in August 2021 during stable flow conditions.

The following information is included in this report:

- Description of field methods;
- Locations of sampling sites and methods of sampling;
- Results of laboratory analyses of surface water, sediment, and BMI samples;
- Hydrographs of continuous flow and stage measurements;
- Manual flow measurements and field parameter measurements;
- Discussion of quality assessments of water chemistry and flow data;
- Data validation checklists and Level A/B checklists; and
- Raw laboratory analytical data and raw field data.

Original field notebooks and data sheets for 2021 monitoring discussed in this DSR are located at TREC Inc.'s (TREC) field office in Butte, MT.

1.1 Objectives

The U.S. Environmental Protection Agency's (USEPA) 2006 ROD and the 2020 Record of Decision Amendment (RODA) (USEPA, 2020) set forth applicable surface water quality standards, and these are presented in Table 1.

The remedial action objectives (RAOs) for surface water, as defined in the ROD, are:

- *Prevent ingestion or direct contact with contaminated surface water that would result in an unacceptable risk to human health.*
- *Return surface water to a quality that supports beneficial use.*
- *Prevent source areas from releasing contaminants to surface water that would cause the receiving water to violate surface water ARARs and RGs for the OU and prevent degradation of downstream surface water sources, including during storm events.*

- *Ensure that point source discharges from any water treatment facility (e.g., water treatment plant, wetland, etc.) meet ARARs.*
- *Prevent further degradation of surface water.*
- *Meet the more restrictive of chronic aquatic life or human health standards for surface water identified in Circular DEQ-7 (Table 8-2) through the application of B-1 class standards.*

The third and sixth objectives listed above were modified in the 2020 RODA. Performance standards for cadmium were revised to reflect the chronic and acute aquatic life standards in the May 2017 version of Circular DEQ-7, which applies to both normal and wet weather flow situations. The copper and zinc acute aquatic life wet weather performance standards were modified to be based on the federal criteria, which relies on the dissolved concentration, rather than the total recoverable concentration.

Table 1 – BPSOU Creek Monitoring Performance Criteria

Analyte	Normal Flow Standard (ug/L)[1]	WW Flow Standard (ug/L)[2,3]
Dissolved Aluminum	87	750
Total Arsenic	10	340
Total Cadmium	0.26	0.49
Total Copper	2.85	3.6
Total Iron	1000	NA
Total Lead	0.545	13.98
Total Mercury	0.05	1.7
Total Silver	NA	0.374
Total Zinc	37	37

[1] Normal Flow Standard based on more conservative of either DEQ7 Chronic Aquatic Life Standard (using hardness of 25 mg/L) or Human Health Standard

[2] WW Flow Standard based on DEQ 7 Acute Aquatic Life Standard (using hardness of 25 mg/L)

[3] Per 2020 RODA, WW Flow Copper and Zinc Standard based on dissolved concentration

The objectives of surface water monitoring collected under the QAPP prior to the BPSOU Consent Decree (CD) (U.S.A and State of Montana, 2020) defined Compliance Standard Determination Period is to establish interim monitoring period conditions for creek and sub-drainage concentrations and flows. Thus, the goals of 2021 surface water monitoring were to collect data necessary to:

1. Evaluate compliance with Performance Standards at compliance monitoring stations SS-06G and SS-07;
2. Evaluate performance of the remedy, in its various stages of implementation; and
3. Evaluate any necessary diagnostic data collected to identify currently implemented remedial system component optimization or maintenance, and necessary to inform Further Remedial Elements (FRE) design.

The intent of 2021 sediment, BMI, and habitat monitoring was to establish interim monitoring period conditions for sediment probable effects concentrations (PEC), the BMI community

structure, and habitat conditions for stream reaches upgradient and within the BPSOU. These data will assist in:

1. Evaluating if sediment sample concentrations exceed the PECs in Table 2 for specific sampling locations and depths in Blacktail Creek (BTC) and Silver Bow Creek (SBC) within the BPSOU and in background/reference reaches in BTC upgradient of BPSOU;
2. Evaluating trends in streambed sediment sample concentrations at sampling locations and routine depths in BTC and SBC within BPSOU and in background/reference reaches in BTC upgradient of BPSOU;
3. Evaluating BMI community structure and habitat conditions within BPSOU and in background/reference reaches upgradient of BPSOU; and
4. Evaluating BMI community structure and habitat condition trends in relation to the abiotic media collected in background/reference reaches upgradient of BPSOU and SBC reaches within BPSOU.

Table 2 – Sediment Probable Effects Concentrations (Ingersoll et al. 2000, MacDonald et al. 2000)

Analyte	Probable Effect Concentration (mg/kg, dry weight, bulk sample)
Arsenic	33
Cadmium	4.98
Copper	149
Lead	128
Mercury	1.06
Zinc	459

2.0 MONITORING SUMMARY

Surface water monitoring conducted under the QAPP included monitoring conducted under normal flow and wet weather conditions in SBC and BTC; diagnostic wet weather surface water monitoring conducted in several SBC and BTC tributaries or subdrainages; and streambed sediment, BMI, and habitat monitoring conducted in SBC and BTC.

2.1 Normal Flow and Wet Weather Monitoring

Normal flow monitoring occurred monthly, with water quality samples collected and stream flow measurements made. Wet weather monitoring was conducted May through September, and this monitoring included water quality sampling, continual stage monitoring, and calculated continual flow measurements. Stations monitored for normal flow, wet weather, and continuous stage and flow are presented in Table 3.

The normal flow and wet weather monitoring stations are presented in Figure 1. A schematic of the hydraulic connectivity and flow pattern of BPSOU surface water is presented in Figure 2. Precipitation data were collected at seven climate stations within the SBC basin. Climate station locations are presented in Figure 3. Water quality results are presented in Appendix A.

The field sample identification (ID) scheme consisted of four letters identifying the sample type, four numbers identifying the sample number, and six numbers identifying the monitoring date. An example is provided below.

Field Sample ID:		**SWBF0025-051521**
SW	=	Surface Water Sample
BF	=	Normal Flow (WW= Wet Weather Sample)
0025	=	Sample Number 25
051521	=	Monitoring Date of 5/15/2021

2.2 Diagnostic SW Monitoring

Diagnostic monitoring consisted of water quality sampling, continuous level and velocity measurements, and calculated flow measurements at the stations presented in Table 4. Diagnostic monitoring stations are presented in Figure 4. Hydraulic connectivity and flow patterns are presented in Figure 5. Diagnostic monitoring water quality results are presented in Appendix F.

The field sample ID scheme consisted of four letters to identify the sample type, four numbers identifying the sample number, and six numbers identifying the monitoring date. An example is provided below.

Field sample ID:		**SWSD0005-051521**
SW	=	Surface Water Sample
SD	=	Storm Drain Sample
0005	=	Sample Number 5
051521	=	Monitoring Date of 5/15/2021

2.3 Sediment Monitoring

Streambed sediment was sampled in three stream reaches within BTC and SBC presented in Table 5 and Figure 6. Streambed sediment analytical results are presented in Appendix J.

The field sample ID scheme consisted of three letters identifying the sample type, three digits identifying the sample number, six digits identifying the monitoring date, and four digits identifying the depth interval. An example is provided below.

Field sample ID:		**SED001-092221-0002**
SED	=	Bed Sediment
001	=	Sample number of 1
092221	=	Monitoring date of 9/22/2021
0002	=	0-2 inch depth interval (0206 = 2-6 inch, 0612 = 6-12 inch)

2.4 BMI and Habitat Monitoring

Benthic macroinvertebrate (BMI) samples and habitat data were collected in the three stream reaches within BTC and SBC presented in Table 5 and Figure 6. Four replicate BMI samples were collected within each reach. Each replicate was submitted to the laboratory as a separate sample to undergo taxonomic analyses. BMI sample and habitat transect location coordinates are presented in Table 6. BMI analytical results are presented in Tables 15 through 19. Habitat data are presented in Appendix K.

The field sample ID scheme for BMI samples consisted of an alphanumeric identifying the stream and sample site, letters Rep A-D identifying the sample replicate, and a parenthetical identifying which bottle, of the total number of bottles for that replicate, was labeled. An example is provided below.

Field sample ID:		**SBC SS-06G Rep D (1 of 2)**
SBC	=	Silver Bow Creek
SS-06G	=	Sample Site
Rep D	=	Fourth replicate of SS-06G sample
(1 of 2)	=	Indicates bottle was one of two bottles for replicate D

2.5 Data Quality Objectives and Assessment

This section summarizes the Data Quality Objective (DQO) and Data Quality Assessment (DQA) methods and steps taken in the field and laboratory to ensure data quality.

2.5.1 Data Quality Objectives

The DQO process, defined in the QAPP, is used to establish performance or acceptance criteria, which serve as the basis for designing a plan for collecting data of sufficient quality and quantity to support the goals of the study. Each step of the DQO process defines criteria that will be used to establish the final data collection design following the Guidance on Systematic Planning Using the Data Quality Objectives Process (USEPA, 2006a).

The surface water data collected under the QAPP aid in developing stage-discharge ratings, modeling wet weather flow, identifying the effects of wet weather discharges on SBC, and determining the efficacy of existing BMPs for controlling contaminant of concern (COC) inputs during wet weather flow. Additionally, compliance with normal flow and wet weather performance standards for monitoring stations SS-06G and SS-07 can be evaluated with data collected under the QAPP. Sediment data collected under the QAPP assist in determining sediment COC concentrations in stream reaches upgradient and within the BPSOU and will provide interim monitoring period sediment COC concentrations that can be used in trend evaluation. BMI and habitat data collected under the QAPP provide interim monitoring period information on the BMI community structure and habitat conditions in stream reaches upgradient and within the BPSOU. These data can be used to assess BMI and habitat trends in relation to abiotic media for the monitored stream reaches.

2.5.2 Data Quality Assessment

DQA is performed to determine whether the DQOs identified in the QAPP were satisfied. The DQA process, as outlined in the Data Management/Data Validation Plan (DM/DVP) (ARCO, 1992c and 2000a), and DQA results are discussed in greater detail in Appendix A (normal flow and wet weather), Appendix E (diagnostic wet weather) and Appendix I (sediment). Data validation was completed by TREC and included data review, statistical testing, verifying assumptions, and assigning data to utilization categories.

The three data utilization categories described in the DM/DVP are enforcement quality data, screening quality data, and rejected data. Enforcement quality data meet all QA/QC and documentation requirements. Screening quality data do not meet all applicable QA/QC requirements and/or documentation requirements. Rejected data may result from inappropriate sampling, documentation, or analysis procedures. Only enforcement and screening quality data are used for evaluation of surface water quality.

2.6 General Monitoring Activities

2021 BPSOU site-wide surface water monitoring included normal flow and wet weather monitoring conducted in BTC and SBC, diagnostic monitoring conducted in select BTC and SBC sub-drainages, and sediment, BMI, and habitat monitoring conducted in BTC and SBC. These monitoring efforts were conducted in general compliance with the QAPP, with any deviations noted in Section 4.0.

2.6.1 Normal Flow and WW

Monitoring activities consisted of water quality sampling, field parameter measurements, stage and flow measurements, and precipitation and snow water equivalent (SWE) measurements. Monitoring activities were performed in accordance with Clark Fork River Superfund Site Investigation (CFRSSI) Standard Operating Procedures (SOPs) (ARCO, 1992c), as well as TREC's internal SOPs. These SOPs are provided in the QAPP and briefly summarized in the following sections of this document. Wet weather water quality samples were collected by mechanical and automated samplers. Wet weather stage data were primarily collected using continuous recorders, although field observations of staff gauges were collected opportunistically and used to adjust continuous recorders as necessary. Water quality samples, flow data, stage data, and field parameters were collected during normal flow sampling. Precipitation and SWE data were collected by private parties, governmental agencies, or Atlantic Richfield contractors. A

summary of the types of monitoring performed at each continuous monitoring station and a description of station locations are presented in Table 3. Stage and flow data are presented in Appendices B and C. Precipitation and SWE data are presented in Table 7a-c and Figure 7a-g.

2.6.1.1 Normal Flow Monitoring Activities

Normal flow monitoring was performed monthly throughout the year and consisted of water quality sampling, field parameter measurements, and stage and flow measurements. A summary of the types of monitoring performed at each station and a description of station locations are presented in Table 3. Normal flow monitoring is discussed in more detail in Section 3.1.1.

2.6.1.2 Wet Weather Monitoring Activities

Wet weather monitoring consisted of collecting water quality samples and recording stage during wet weather conditions. A summary of the types of monitoring performed at each station and a description of station locations are presented in Table 3.

Water quality samples were primarily collected by automated samplers manufactured by Teledyne ISCO (ISCO). These samplers, along with mechanical self-closing D-TEC samplers, were deployed for the season in March once freezing conditions abated. Samples obtained by D-TEC samplers were retained if ISCOs failed to collect during wet weather events.

ISCOs were set to collect at specific time increments after the stage height at which the sampler was set to trigger was reached. Once ISCOs were triggered, the samplers collected four discrete samples at one-hour intervals. The initial sample stage was set to collect the first sample on the rising limb of the wet weather hydrograph. The second and third samples were expected to be collected near the peak of storm flow. The fourth sample was expected to be collected on the falling limb of the hydrograph. Three surface water stations (SS-01, SS-06G, and SS-07) were equipped with a second ISCO for parallel sampling. These second samplers (SS-01-P, SS-06G-P, and SS-07-P) were triggered at the same time as the parent sampler but collected four time-composited samples. The time-composited samples are comprised of aliquots collected every ten minutes over an hour. It is assumed all ISCOs effectively sampled throughout the wet weather hydrograph; however, normal flow stages used to program ISCO actuator triggers, as well as the magnitude and duration of flow may have resulted in other points on the hydrograph being sampled. Wet weather monitoring is discussed in more detail in Section 3.1.2.

D-TECs were set to collect at the stage their corresponding ISCOs were set to trigger. D-TECs were assumed to collect samples on the rising limb of the hydrograph. Stages at which samplers were set to collect, and any changes made to the height throughout the season, are presented in Table 8.

2.6.1.3 Surface Water Stage and Flow

Surface water stage data were recorded on 15-minute intervals by continuous recording devices at 15 surface water stations, with three of those devices also recording flow. These stations are presented in Table 3. Stage data were recorded throughout the year and include both wet weather and normal flow conditions, with occasional data gaps due to equipment maintenance or operational problems. Note that three additional sites presented in Table 3 collect continuous data for projects outside of the scope of this DSR. Flow data at SS-MPTP, CT-EFS7 and SS-STP were recorded daily. A Supervisory Control and Data Acquisition (SCADA) system at SS-MPTP

controls a constant discharge. A SCADA system is also used at CT-EFS7, however, this system does not control a constant discharge. Stage and flow hydrographs are presented in Appendix B. Surface water stage and flow are discussed in more detail in Section 3.1.3.

Stage-discharge relationships were developed for stations SS-01, SS-05, SS-05A, SS-06A, SS-06G, and MSD-3A by TREC on behalf of Atlantic Richfield and at SS-01.35 and SS-07 by the United States Geological Survey (USGS). Stage-discharge relationships allow continuous stage records to be transformed to continuous discharge records. Stage-discharge rating tables and rating curve figures developed by TREC are presented in Appendix C. The USGS discontinued continuous stage monitoring at SS-04 on April 30, 2020 and ceased producing a stage-discharge relationship at this site on October 31, 2019. Backwater created by the Butte Mine Flooding Operable Unit (BMFOU) Pilot Project discharge prohibited development of a reliable stage-discharge relationship. The USGS established continual stage monitoring at SS-01.35 on April 30, 2020. Atlantic Richfield maintains a continual stage recorder at SS-04, but stage-discharge relationships are not developed for this site. An SS-04 stage hydrograph is presented in Appendix B.

Continuous stage and/or flow records are obtained by the controlling parties for stations SS-MPTP, CT-EFS7, SS-STP, SS-01.35, and SS-07.

2.6.1.4 Precipitation

Precipitation measurements were recorded at seven stations, as presented in Figure 3, by a mix of governmental agencies and private parties. Station BMMA is located at Bert Mooney Memorial Airport approximately one mile south of I-90 and Basin Creek SNOTEL site (Site ID 12d09s) is in the Basin Creek drainage to the south of Butte and includes a snow pillow to record SWE. Both are operated by the National Climactic Data Center. Blacktail Canyon weather station is located southeast of Butte in Blacktail Canyon and is operated by a private party. Station Kelley Mine is at the Atlantic Richfield office on Anaconda Road, just west of the Berkeley Pit. Station CB-1 is located on Empire Street, which is centrally located in the Missoula Gulch sub-drainage. Station BTL/LAO is located due west of the Chemical Addition System at the Butte Treatment Lagoons. Stations Kelley Mine, CB-1, and BTL/LAO are operated by Atlantic Richfield. Station BSB-Shop that was previously operated by Atlantic Richfield was removed at the beginning of April 2021 due to dismantling of the former BSB road maintenance shop. Therefore, the BSB-Shop data set terminates April 1, 2021. Data are reported daily at BMMA and Basin Creek and hourly at Blacktail Canyon and CB-1. BTL/LAO data are reported at variable intervals but are commonly reported every 15 minutes. Kelley Mine data are reported every five minutes. Precipitation and SWE data are presented in Table 7a - 7c and Figure 7a -7g.

2.6.1.5 pH Monitoring

Surface water pH was monitored by automated devices at stations SS-01, SS-06G, and SS-07. pH measurements were collected continuously at 15-minute intervals throughout the year and include both wet weather and normal flow conditions. Data gaps and suspect data were attributed to ice, equipment failure, and pH probe replacement. After pH probe calibration there is a period of equilibration that can last over an hour during which the pH readings may not be accurate. Continuous pH data are presented in Appendix B.

2.6.2 Diagnostic SW Monitoring

Diagnostic monitoring consisted of continuous flow monitoring and water quality sampling performed in accordance CFRSSI and TREC SOPs as outlined in the QAPP. Previously, in the *Butte Hill Diagnostic Surface Water Monitoring Plan* (DSWMP) (Atlantic Richfield, 2017), diagnostic stations were given a level rating depending on their location within the basin. Level 1 stations are located at the bottom of the basin, level 2 stations are located part way up the basin and level 3 stations are located at the top of the drainages. Diagnostic monitoring in 2021 only included level 1 and level 3 monitoring stations. Level 2 stations monitored in 2013 and 2014 have been discontinued.

2.6.2.1 Water Quality Monitoring

Diagnostic water quality sampling consisted of collecting water quality samples during runoff conditions, primarily by automated samplers. These samplers were installed in late March and early April. Diagnostic water quality stations are presented in Figure 4 and a hydraulic schematic is presented in Figure 5. Sampling locations, descriptions, and monitoring equipment are presented in Table 4.

ISCO automatic samplers collect following initiation by an actuator device which detects the presence of water at a manually set stage. Actuators are set to initiate sampling during the rising limb of the hydrograph. The magnitude and duration of flow and actuator position may have resulted in sampling at different points on the hydrograph.

2.6.2.2 Flow Monitoring

Diagnostic surface water flow was recorded by automated devices at surface water stations within the BPSOU monitoring network. Water depth and velocity data were collected by area-velocity (AV) Meters as presented in Table 4. Hydrographs are presented in Appendix F.

2.6.3 Sediment, Habitat, and BMI Monitoring

Sediment sampling was conducted August 12 and 13, 2021 at three stream reaches, each approximately 500 feet long. The reaches were located at surface water stations SS-01, SS-06A, and SS-06G. Table 5 and Figure 6 identify the sediment sampling reaches. Each sample consisted of a 5-point composite sampled along the entire reach. An effort was made to evenly space the sub-sample collection points along the reach, but exact sub-sample points were controlled by the location of available sediment. Three depth intervals were attempted at each reach, 0-2 inches, 2-6 inches, and 6-12 inches. An inadequate amount of sediment was obtained for the 6-12 inch interval at SS-06A, so pH, TOC, and particle size analyses were omitted. No sediment was obtained for the 6 to 12 inch interval at SS-06G.

Benthic macroinvertebrate (BMI) sample collection and habitat monitoring were conducted August 9 and 10, 2021 at three stream reaches collocated with the sediment sampling reaches. The reaches were located at surface water stations SS-01, SS-06A, and SS-06G. Table 5 and Figure 6 identify the BMI and habitat monitoring reaches. Four replicate BMI samples were collected within each reach. Each replicate was submitted to the laboratory as a separate sample to undergo taxonomic analyses. BMI sample and habitat transect location coordinates are presented in Table 6. BMI samples were collected in riffle habitats from the least embedded, most heterogenous cobble substrates found at each site, using a Hess sampler with 1,000-micron mesh netting. In-situ

measurements of pH, water temperature, dissolved oxygen, and specific conductance were made concurrently with BMI sample collection.

BMI sample collection was followed by habitat monitoring. Habitat monitoring was conducted using EPA's Rapid Bioassessment Protocols (RBP) (Barbour et al, 1999), as well as elements of EPA's Environmental Monitoring and Assessment Program (EMAP) (EPA, 1998). The characteristics sampled in 2021 included epifaunal substrate and available cover; embeddedness and pool substrate characterization; velocity, depth, and pool variability; sediment deposition; channel flow status; channel alteration; frequency of riffles and channel sinuosity; and bank stability. The next scheduled vegetation monitoring will occur in 2022. To employ the RBP and EMAP, sample reaches, established as 40 times the average wetted width, were divided into 11 channel cross-sections (transects) at equal intervals along the reach length. These transects were labeled A through K. Transect A represented the most downstream transect within the reach and transect K represented the most upstream transect within the reach. Transect coordinates are provided in Table 6.

3.0 DATA SUMMARY

3.1 Normal Flow and WW

Monitoring activities during 2021 consisted of water quality sampling, field parameter measurements, stage and flow measurements, and acquisition and review of precipitation and SWE data. These activities were performed in accordance with CFRSSI and TREC SOPs and are outlined in the QAPP. The following sections present analytes, field conditions, frequency of sampling events, and counts of natural samples. Appendix A presents the normal flow and wet weather data.

3.1.1 Normal Flow Monitoring

During the 2021 monitoring period, normal flow water quality was monitored 12 times at SS-01, SS-01.35, SS-04, SS-05, SS-05A, SS-06A, SS-06G, and SS-07. A total of 144 samples were collected during this monitoring, 120 of which were primary samples, 12 were duplicates, and 12 were blanks. All normal flow samples were analyzed for dissolved metals, total metals, alkalinity, nitrate/nitrite, sulfate, TDS, and TSS. Samples collected at SS-01, SS-01.35, SS-06G, and SS-07 were also analyzed for dissolved organic carbons (DOC), phosphorus (P), Total Kjeldahl Nitrogen (TKN), and ammonia (NH_3). Duplicate and blank sample analysis included the extra analyses. In 2021, normal flow monitoring produced 2,864 natural sample data points. Because the shipment of a cooler was delayed by the courier in February, ten samples arrived outside the TDS and TSS holding time; thus, analysis for these parameters was cancelled. Additionally, a sulfate result from September monitoring was rejected due to not meeting holding time requirements, and an alkalinity result from November monitoring was rejected due to not being comparable to historical data. Thus, analytical completeness for normal flow monitoring was 99%. Completeness for normal flow field parameter measurements was 100%.

Normal flow conditions were potentially affected by fluctuations in upland snowmelt, in groundwater inputs, and in changes to controlled inputs to the stream. Normal flow water quality analytical results are presented in Table 9a through Table 9c, as well as in Appendix A. These tables present analytical results, associated laboratory and validation qualifiers, and data utilization

category. Table 9d includes field parameter measurements and stage and flow data collected during normal flow monitoring. Normal flow data quality is discussed in detail in Appendix A. Tables A5a through A5d present field duplicate results, field blank results, sample holding times for each analytical parameter, and laboratory QC sample results. Deviations are listed in Section 4.1.

3.1.2 Wet Weather Monitoring

Given the difficulty in predicting wet weather events, the QAPP does not specify the frequency or number of samples to be collected for wet weather data.

During the 2021 monitoring period, eight wet weather events were sampled at eight stations between May 23 and August 21 as presented in Table 10. A total of 304 wet weather natural samples were analyzed for total metals, dissolved metals, alkalinity, nitrate/nitrite, sulfate, TDS, and TSS. Samples from SS-01, SS-01-P, SS-06G, SS-06G-P, SS-07, and SS-07-P collected in the first storm event of the month were also analyzed for DOC, phosphorus, TKN, and ammonia. A total of 320 samples were collected, 304 of which were primary ISCO samples, 14 were duplicate ISCO samples, and 14 were field blanks. In 2021, wet weather monitoring produced 8,896 natural sample data points. Seven AgTR results from May were rejected due to not meeting matrix spike recovery requirements. Thus, completeness for 2021 wet weather data was 99.9 %.

Wet weather sampling may include incomplete laboratory analysis due to insufficient volume. Although not a deviation, samplers may fail to collect or may collect incorrectly during a wet weather event because the initial sampler intake stage was set too high or too low; the sample intake or bubbler lines were damaged; the sampler lost power; or the flow meter failed. When ISCOs failed to collect and backup DTEC samples were available, the DTEC samples were submitted to the labs. Prior to the wet weather event on August 18, samplers at SS-01, SS-01-P, and SS-01.35 collected early on August 16 and 17 due to the initial sampler intake stage being set too low. Due to the early collection, these samplers were not triggered by the August 18 event.

Wet weather-associated field parameters are collected only when field grab (FG) samples are collected. There were neither DTEC nor FG wet weather samples collected in 2021. Wet weather water quality results are presented in Table 11a through Table 11c, as well as in Appendix A. These tables present analytical results and their associated laboratory and validation qualifiers and data utilization categories. Table 11d presents the stage and calculated flow associated with each wet weather sample. Wet weather data quality is discussed in detail in Appendix A. Tables A6a through A6d present field duplicate results, field blank results, sample holding times for each analytical parameter, and laboratory QC sample results. Deviations are listed in Section 4.1.

3.1.3 Stream Stage and Flow Monitoring

Locations of continuous stage recorders are presented in Table 3. Stage measurements at sites downstream of the BMFOU Berkeley Pit and Discharge Pilot Project (BMFOU Discharge Pilot Project) were affected by fluctuations of Pilot Project discharge throughout the year. Some continuous stage records were incomplete and contained data gaps or erroneous data. Data gaps and erroneous data were mainly attributed to freezing temperatures and equipment failure. Fifteen to thirty-minute data losses occurred at multiple sites throughout the year when maintenance was performed, such as battery and programming changes. Stage and discharge hydrographs are presented in Appendix B, and stage-discharge relationships are presented in Appendix C. Deviations are listed in Section 4.1.

3.1.4 Precipitation Data

Most of the 2021 calendar precipitation came between April and August, while the majority of high elevation snowmelt occurred in early May. February saw the greatest SWE gain of 2.3 inches. SWE peaked April 26 at 6.3 inches. The SWE at the Basin Creek SNOTEL site was first recorded as zero on May 14. Late May saw a short increase to 0.8 inches SWE, but quickly returned to 0 before snow accumulation resumed in October.

Of the precipitation stations monitored, Basin Creek had the greatest precipitation in 2021 (13.5 inches), followed by Blacktail Canyon (9.72 inches), CB-1 (8.61 inches), Kelley Mine (6.63 inches), and BMMA (6.48 inches). Station BTL/LAO recorded 4.95 inches of precipitation in 2021, but this station experienced a data loss from early August to mid-November. Station BSB-Shop was removed April 1, 2021 due to the BSB road maintenance shop being dismantled to allow for the Parrott Tailings removal project to proceed. In the three months prior to station removal, 1.02 inches of precipitation was recorded at BSB-Shop. Total 2021 SWE, at the Basin Creek SNOTEL site, was 9.6 inches gained and 9.6 inches lost for a net gain of 0.0 inches. Daily, monthly, and total precipitation data are presented in Table 7a and Table 7b. SWE data are presented in Table 7c. Daily precipitation results are presented in Figure 7a through Figure 7g.

The daily datasets for Blacktail Canyon, Basin Creek, CB-1, and BMMA were 100% complete, while the Kelly Mine was 88.49% complete (42 missing data points) and BTL/LAO was 69.31% complete (112 missing data points). Station BSB-Shop was operated through 1400 on April 1, 2021, and the data set was 100% complete for this period.

3.2 Diagnostic Monitoring

Monitoring activities during 2021 consisted of water quality sampling as well as stage and flow measurements. These activities were performed in accordance with CFRSSI and TREC SOPs and are outlined in the QAPP. The following sections present analytes, frequency of sampling events, and counts of natural samples.

3.2.1 Water Quality Monitoring

Given the difficulty in predicting wet weather events, the QAPP does not specify the frequency or number of samples to be collected for diagnostic wet weather data. During the 2021 monitoring period, twenty wet weather events were sampled at ten diagnostic stations between May 7 and October 8 as presented in Table 12. Diagnostic monitoring stations are presented in Table 4. A total of 295 wet weather diagnostic samples were collected, and of these 253 were natural samples, 21 were field duplicates, and 21 were field blanks. The intended analyses for each sample were total metals, dissolved metals, sulfate, and TSS. Due to inadequate sample volumes, numerous samples did not receive all analyses, with sulfate and TSS most often omitted, followed by dissolved metals. Of the intended 4,048 natural sample analyses, 3,841 were completed. Thus, analytical completeness for 2021 diagnostic wet weather was 95%. Diagnostic wet weather water quality results are presented in Table 13a through Table 13c, as well as in Appendix E. These tables present analytical results, associated laboratory and validation qualifiers, and data utilization category. Table 13d presents calculated flows associated with diagnostic wet weather sample times. Empty cells in Table 13d indicate that the level and velocity criteria to accurately calculate flow were not met, so flows were not calculated for those sample times. Level and velocity criteria are presented in Section 3.2.2. Diagnostic wet weather data quality is discussed in detail in

Appendix E. Tables E3a through E3d present field duplicate results, field blank results, sample holding times for each analytical parameter, and laboratory QC sample results.

3.2.2 Diagnostic Level and Flow Monitoring

AV meters were maintained at diagnostic stations as presented in Table 4. Diagnostic wet weather hydrographs are presented in Appendix F. Some flow records contain data gaps or suspect data that are mainly attributed to low water levels, standing water or backflow, and occasionally due to ice or equipment malfunction. At water levels less than 0.08 inches, velocity measurements are uncertain, and the level measurement is uncertain at levels below 0.033 inches. For levels between 0.033 inches and 0.08 inches where the velocity measurement is suspect, the stage measurement is used to calculate a discharge based on Manning's equation. Suspect data at specific continuous recorder stations are listed below. Deviations are listed in Section 4.2.

- MSD-CLV-3A: The sampling equipment in the culverts were removed on August 17 to accommodate the construction work required for the BTL stress test. The sampling equipment was re-installed August 27.
- BG-CLV-1: Suspect data points caused by standing water or backflow occurred in May through August.
- GG-CLV-I: Suspect data points occurred from April through June and in September.
- MG-CLV-0: Suspect data points occurred from April through the first week of May.
- TX-HD-OUT: Suspect data points occurred on March 31 and April 1.
- LC-CLV-1: Suspect data points caused by standing water or backflow occurred periodically from June 10 through October.

3.3 Sediment Monitoring

In 2021, sediment samples were collected August 12 and 13 along the three stream reaches presented in Table 5. Eight natural samples, 1 field duplicate, and 1 field blank were collected. The eight natural samples consisted of the 0-2 inch and 2-6 inch depth intervals at the SS-06G reach and the 0-2 inch, 2-6 inch, and 6-12 inch depth intervals at the SS-06A and SS-01 reaches. Each 0-2 inch and 6-12 inch sample consisted of a five-point composite sample, with the two depth intervals being collocated. At SS-01 and SS-06A, the 6-12 inch interval consisted of only two sub-samples (collocated with the 0-2 and 2-6 inch intervals). At SS-06G it was not possible to penetrate the armored streambed past six inches, thus, no 6-12 inch interval samples were collected. Each sub-sample point was field characterized for color, texture, grain size, and estimated sorting. Field characterization forms are provided in Appendix H. Each sample was to be analyzed for total arsenic, cadmium, copper, lead, mercury, zinc, pH, total organic carbon (TOC), and particle size; thus 108 natural sample analyses were anticipated. Note that particle size includes three size categories % clay, % silt, % sand. Based on the percentages of each category, texture is also reported. An inadequate amount of sediment was obtained for the 6-12 inch interval at SS-06A so pH, TOC, and particle size analyses were omitted. Of the anticipated 88 natural sample analyses, 83 were completed; thus, completeness was 94%.

Sediment data quality is discussed in detail in Appendix I and analytical results are presented in Table 14a through 14c. These tables include analytical results, associated laboratory and validation qualifiers, and data useability categories. Deviations are listed in Section 4.3.

3.4 BMI and Habitat Monitoring

In 2021, BMI samples were collected August 9 and 10 along the three stream reaches presented in Table 5. Four replicate BMI samples were collected at each stream reach; thus, 12 individual samples were submitted to the laboratory for taxonomic classification. The goal was to assess each sample for the metrics presented in Table 15. All of these assessments were completed. BMI sampling precision is related to variability and is assessed by comparing the replicate samples collected at each site. The goal was to have ≤ 20% relative standard deviation (RSD) in taxa richness and that was achieved. To measure laboratory enumeration precision, 10% of a sample set was counted by a second taxonomist, with a goal of having > 90% similarity. Laboratory identification precision is measured in a similar manner, with a goal of >85% agreement. Both enumeration and identification precision were achieved. Appendix L presents the BMI data.

BMI taxa, community metrics, and taxa tolerance levels for each of the three stream reaches monitored are presented in Table 16a through Table 16c, Table 17a through 17c, and Table 18a through 18c, respectively. Table 19 presents field parameter measurements collected at each monitoring reach.

Habitat monitoring was completed in tandem with BMI monitoring. Each site was first sampled for the BMI community, and habitat monitoring was then completed before moving on to the next site. Habitat monitoring field forms are presented in Appendix K. Deviations are listed in Section 4.4.

4.0 DEVIATIONS

4.1 Normal Flow and WW

Fifteen to thirty-minute data losses occurred at multiple sites throughout the year when maintenance was performed, such as battery or programming changes.

- Power failures at the SS-01 continuous data recorder resulted in a data loss from 07:00 to 16:15 on April 22 and from 07:30 on November 3 to 08:15 on November 4.
- A power failure at the SS-05A continuous data recorder resulted in a data loss from 13:45 on December 6 to 13:15 on December 23.
- An equipment failure at the SS-06A continuous data recorder resulted in a data loss from 08:00 to 10:00 on December 12.
- In-depth maintenance on the continuous stage data recorder at SS-06G resulted in a data loss from 10:30 to 12:15 on November 19.
- Due to off-specification flow at the BMFOU Pilot Project plant during the June 9 baseflow sampling event, water quality samples and flow measurements at SS-01 and SS-01.35 were collected first while waiting for Pilot Project discharge water to reach SS-07 after discharge resumed. It was agreed upon by field crews and the QAO that any sediments suspended in the water column caused by sampling these upstream sites would settle out before the water reached SS-07, where sampling was resumed in the usual downstream to upstream order.

4.2 Diagnostic

Fifteen to thirty-minute data losses occurred at multiple sites throughout the year when maintenance was performed, such as battery or programming changes. The sensors on AV meters are replaced as they near the end of their life expectancy.

- GG-CH-1: A data gap occurred from 14:55 on May 3 to 12:45 on May 7.
- MG-CLV-0: A data gap occurred from 15:30 on August 31 to 09:40 on September 16.
- LC-CLV-1: The AV meter was replaced on June 10. All data prior to June 10 are suspect.
- GG-CH-1: The AV meter was replaced on May 7. All data prior to May 7 are suspect.
- MSD-CLV-3A: The AV meters in both culverts were replaced on June 2. All data prior to June 2 are suspect.

4.3 Sediment

- An inadequate amount of sediment was obtained for the 6 to 12 inch interval at SS-06A, so pH, TOC, and particle size analyses were omitted.
- No photos were taken of sample cores.
- Inaccurate coordinates were obtained for SS-06G transect 1, and no coordinates were obtained for SS-06G transects 2 and 3.
- When completing the electronic field form, Site SS-06G was mistakenly chosen at SS-01 Transect 2. Thus the mapped sediment sample points for SS-01 in Appendix H name SS-01 Transect 2 as SS-06G Transect 2.

4.4 BMI and Habitat

- None

5.0 REFERENCES

ARCO, 1992a. Clark Fork River Superfund Site Investigations Laboratory Analytical Protocol, April, 1992.

ARCO, 1992c. Clark Fork River Superfund Site Investigations Data Management/Data Validation Plan, June, 1992.

ARCO, 1992d. Clark Fork River Superfund Site Investigations Standard Operating Procedures, September, 1992.

ARCO, 1993. Clark Fork River Superfund Site Investigations Pilot Data Summary Report for Organic and Inorganic Data, April, 1993.

ARCO, 2000a. Clark Fork River Superfund Site Investigations Data Management/Data Validation Plan Addendum, June, 2000.

ARCO, 2000b. Clark Fork River Superfund Site Investigations Pilot Data Report Addendum, July, 2000.

Atlantic Richfield 2020. Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period. Atlantic Richfield, October, 2020.

Hilsenhoff, W. L. 1987. "An Improved Biotic Index of Organic Stream Pollution." *Great Lakes Entomologist*. 20:31-39.

Ingersoll, C. G., MacDonald, D. D., Wang, N., Crane, J. L., Field, L. J., Haverland, P. S., ... & Smorong, D. E. 2000. Predictions of sediment toxicity using consensus-based freshwater sediment quality guidelines. GLNPO, USEPA, 2000.

Ingman, G. L. and M. A. Kerr. 1989. Water Quality in the Clark Fork River Basin, Montana: State fiscal years 1988-1989. Montana Dept. of Health and Environmental Sciences, Water Quality Bureau.

Kaufman, P.R. and E.G. Robinson. 1998. Physical Habitat Assessment. Pp 77-118 In: EPA, 1998. Environmental Monitoring and Assessment Program: Field Operations and Methods for Measuring the Ecological Condition of Wadeable Streams. EPA/620/R-94/004F. U.S. Environmental Protection Agency; Washington, D.C. September 1998.

MacDonald, D. D., Ingersoll, C. G., & Berger, T. A. 2000. Development and evaluation of consensus-based sediment quality guidelines for freshwater ecosystems. *Archives of environmental contamination and toxicology*, *39*(1), 20-31.

McGuire, D. L. 1987. Clark Fork River macroinvertebrate study, 1986. Technical report prepared for the Montana Governor's Office and Montana Water Quality Bureau.

McGuire, D. L. 1989. Clark Fork River aquatic macroinvertebrate survey, August, 1987. Technical report prepared for the Montana Department of Health and Environmental Sciences/Water Quality Bureau.

McGuire, D. L. 1992. *Montana Reference Streams Project: 1991 Aquatic Macroinvertebrate Surveys*. Technical report prepared for the Montana Department of Health and Environmental Sciences/Water Quality Bureau.

McGuire, D. L. 2007. Clark Fork River Biomonitoring: Macroinvertebrate Community Assessments, 2006. Technical report prepared for USEPA, Region 8. Helena, Montana.

McGuire, D. L. 2012. Clark Fork River Biomonitoring: Macroinvertebrate Community Assessments for 2012. Technical report prepared for USEPA, Region 8. Helena, Montana.

McGuire, D. L. 2013. Clark Fork River Biomonitoring: Macroinvertebrate Community Assessments in 2011. Technical report prepared for CH2M HILL. Boise, Idaho.

MTDEQ, 2012. Sample Collection, Sorting, Taxonomic Identification, and Analysis of Benthic Macroinvertebrate Communities Standard Operating Procedure. March 15, 2012.

MTDEQ 2017. Circular DEQ-7, Montana Numeric Water Quality Standards, Montana Department of Environmental Quality, Planning, Prevention, and Assistance Division - Water Quality Standards Section, May 2017.

Sauer, V.B., 2002. *Standards for the Analysis and Processing of Surface-Water Data and Information Using Electronic Methods*. U.S. Geological Survey Water-Resources Investigation Report 2002.

Stagliano, D. 2020. Clark Fork River Biomonitoring: Macroinvertebrate Community Assessments for 2019. Technical report prepared for USEPA, Region 8. Helena, Montana.

Stribling, J.B., S.R. Moulton II, and G.T. Lester. 2003. Determining the quality of taxonomic data. *Journal of the North American Benthological Society* 22:621-631.

TREC, Inc. 2021. *Data Validation Guidelines for Inorganic Chemistry*. 2021.

United States of America and The State of Montana. 2020. United States of America and The State of Montana, Plaintiffs, v. Atlantic Richfield Company and the City and County of Butte-Silver Bow, a Municipal Corporation and Political Subdivision of the State of Montana, Defendants. Consent Decree for the Butte Priority Soils Operable Unit Partial Remedial Design/Remedial Action and Operation and Maintenance. Civil Action no. CV 89-039-BU-SEH. November 2020.

USEPA, 2006a. Guidance on Systematic Planning Using the Data Quality Objectives Process, 2006.

USEPA, 2006b. Record of Decision, Butte Priority Soils Operable Unit, Silver Bow Creek/Butte Area NPL Site. September, 2006.

USEPA (US Environmental Protection Agency). 2020. *National Functional Guidelines for Inorganic Superfund Methods Data Review*, Washington DC: EPA, Office of Superfund Remediation and Technology Innovation. OLEM 9240.1-66. EPA-542-R-20-006. November 2020.

USEPA, (US Environmental Protection Agency). 2020. *ROD for the Butte Priority Soils Operable Unit of the Silver Bow Creek/Butte Area Superfund Site. Butte-Silver Bow County, Montana.* Appendix A to the Consent Decree. February 4, 2020.

Whittaker, R.H. 1975. *Communities and Ecosystems*, 2nd Edition. MacMillan Publishing Co., New York, NY.

Tables

Table 1 – BPSOU Creek Monitoring Performance Criteria

Table 2 – Sediment Probable Effects Concentrations

Table 3 – BPSOU Surface Water Monitoring Stations 2008-2022

Table 4 – BPSOU 2021 Surface Water Monitoring Stations – Diagnostic

Table 5 – BPSOU 2021 Sediment and BMI Monitoring Stream Reaches

Table 6 – BPSOU 2021 BMI and Habitat Location Coordinates

Table 7 – BPSOU 2021 Climate Station Precipitation

- 7a: BPSOU 2021 Climate Station Precipitation – Daily
- 7b: BPSOU 2021 Climate Station Precipitation – Monthly
- 7c: BPSOU 2021 Climate Station Precipitation – Snow Water Equivalent

Table 8 – BPSOU 2021 Surface Water Monitoring Sampler Stage Heights

Table 9 – BPSOU 2021 Normal Flow Water Results

- 9a: BPSOU 2021 Normal Flow Water Quality Results - Total Recoverable
- 9b: BPSOU 2021 Normal Flow Water Quality Results - Dissolved
- 9c: BPSOU 2021 Normal Flow Water Quality Results - General Chemistry
- 9d: BPSOU 2021 Normal Flow Results - Field

Table 10 – BPSOU 2021 Surface Water Monitoring Sample Collection Matrix – Wet Weather

Table 11 – BPSOU 2021 Wet Weather Results

- 11a: BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable
- 11b: BPSOU 2021 Wet Weather Water Quality Results - Dissolved
- 11c: BPSOU 2021 Wet Weather Water Quality Results – General Chemistry
- 11d: BPSOU 2021 Wet Weather Results - Field

Table 12 - BPSOU 2021 Surface Water Sample Collection Matrix - Diagnostic

Table 13 – BPSOU 2021 Diagnostic Water Quality Results

- 13a: BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable
- 13b: BPSOU 2021 Diagnostic Water Quality Results - Dissolved
- 13c: BPSOU 2021 Diagnostic Water Quality Results - General Chemistry
- 13d: BPSOU 2021 Diagnostic Results - Field

Table 14 – BPSOU 2021 Sediment Analytical Results

14a: BPSOU 2021 Sediment Sample Results - Metals

14b: BPSOU 2021 Sediment Sample Results - pH and TOC

14c: BPSOU 2021 Particle Size

Table 15 – BMI Community Metrics Definitions

Table 16 – BPSOU 2021 BMI Taxa

16a: BPSOU 2021 SS-01 BMI Taxa

16b: BPSOU 2021 SS-06A BMI Taxa

16c: BPSOU 2021 SS-06G BMI Taxa

Table 17 – BPSOU 2021 BMI Community Metrics

17a: BPSOU 2021 SS-01 BMI Community Metrics

17b: BPSOU 2021 SS-06A BMI Community Metrics

17c: BPSOU 2021 SS-06G BMI Community Metrics

Table 18 - BPSOU 2021 BMI Taxa Tolerance Levels

18a: BPSOU 2021 SS-01 BMI Taxa Tolerance Levels

18b: BPSOU 2021 SS-06A BMI Taxa Tolerance Levels

18c: BPSOU 2021 SS-06G BMI Taxa Tolerance Levels

Table 19 – BPSOU 2021 BMI In-situ Parameters

Table 1. BPSOU Creek Monitoring Performance Criteria

Analyte	Normal Flow Standard (ug/L)[1]	WW Flow Standard (ug/L)[2,3]
Dissolved Aluminum	87	750
Total Arsenic	10	340
Total Cadmium	0.26	0.49
Total Copper	2.85	3.6
Total Iron	1000	NA
Total Lead	0.545	13.98
Total Mercury	0.05	1.7
Total Silver	NA	0.374
Total Zinc	37	37

[1] Normal Flow Standard based on more conservative of either DEQ7 Chronic Aquatic Life Standard (using hardness of 25 mg/L) or Human Health Standard

[2] WW Flow Standard based on DEQ 7 Acute Aquatic Life Standard (using hardness of 25 mg/L)

[3] Per 2020 RODA, WW Flow Copper and Zinc Standard based on dissolved concentration

Table 2. Sediment Probable Effect Concentrations

Analyte	**Probable Effect Concentration (mg/kg, dry weight, bulk sample)**
Arsenic	33
Cadmium	4.98
Copper	149
Lead	128
Mercury	1.06
Zinc	459

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Monthly Chemistry/Flow													
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Blacktail Creek (BTC)																
GG-BTC	Atlantic Richfield	Grove Gulch sub-drainage monitoring station located upstream of SS-04 and below the Clark Tailings repository; located on BTC at outlet culvert from GG.														
SS-01	Atlantic Richfield	Blacktail Creek (BTC) USGS Station at Harrison Ave, upstream of the BPSOU.	FG	FG		FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
SS-01P	Atlantic Richfield	Located at SS-01 sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.														
SS-01.35	USGS	Blacktail Creek station upstream of GG-BTC.													FG	FG
SS-01.6	Atlantic Richfield	Blacktail Creek station downstream of Lexington Ave bridge.										FG	FG	FG		
SS-04	Atlantic Richfield	Blacktail Creek station upstream of its confluence with the uSBC near George Street.	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
Buffalo Gulch (BG)																
BG-01	Atlantic Richfield	Buffalo Gulch sub-drainage monitoring station located upstream of SS-05 and below storm sewer outlet culvert.	FG	FG				FG								
Butte Metro Sewage Treatment Plant (STP)																
SS-STP	BSB	Outfall of Metro Sewage Treatment Plant before it reaches SBC directly upstream of SS-07.	FG	FG												
Grove Gulch (GG)																
GG-01	Atlantic Richfield	Grove Gulch monitoring location upstream of confluence with BTC. Located in channel on east side of Oregon Street.	FG	FG												
GG-04	Atlantic Richfield	Located within the Grove Gulch channel on the south side of I-90.		FG												

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Wet Weather Chemistry													
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Blacktail Creek (BTC)																
GG-BTC	Atlantic Richfield	Grove Gulch sub-drainage monitoring station located upstream of SS-04 and below the Clark Tailings repository; located on BTC at outlet culvert from GG.		ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO		
SS-01	Atlantic Richfield	Blacktail Creek (BTC) USGS Station at Harrison Ave, upstream of the BPSOU.	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO
SS-01P	Atlantic Richfield	Located at SS-01 sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.													ISCO	ISCO
SS-01.35	USGS	Blacktail Creek station upstream of GG-BTC.													ISCO	ISCO
SS-01.6	Atlantic Richfield	Blacktail Creek station downstream of Lexington Ave bridge.														
SS-04	Atlantic Richfield	Blacktail Creek station upstream of its confluence with the uSBC near George Street.	D-TEC	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO
Buffalo Gulch (BG)																
BG-01	Atlantic Richfield	Buffalo Gulch sub-drainage monitoring station located upstream of SS-05 and below storm sewer outlet culvert.	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC					
Butte Metro Sewage Treatment Plant (STP)																
SS-STP	BSB	Outfall of Metro Sewage Treatment Plant before it reaches SBC directly upstream of SS-07.	FG	FG	FG	FG										
Grove Gulch (GG)																
GG-01	Atlantic Richfield	Grove Gulch monitoring location upstream of confluence with BTC. Located in channel on east side of Oregon Street.	D-TEC													
GG-04	Atlantic Richfield	Located within the Grove Gulch channel on the south side of I-90.														

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Catch Basin Chemistry													
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Blacktail Creek (BTC)																
GG-BTC	Atlantic Richfield	Grove Gulch sub-drainage monitoring station located upstream of SS-04 and below the Clark Tailings repository; located on BTC at outlet culvert from GG.														
SS-01	Atlantic Richfield	Blacktail Creek (BTC) USGS Station at Harrison Ave, upstream of the BPSOU.														
SS-01P	Atlantic Richfield	Located at SS-01 sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.														
SS-01.35	USGS	Blacktail Creek station upstream of GG-BTC.														
SS-01.6	Atlantic Richfield	Blacktail Creek station downstream of Lexington Ave bridge.														
SS-04	Atlantic Richfield	Blacktail Creek station upstream of its confluence with the uSBC near George Street.														
Buffalo Gulch (BG)																
BG-01	Atlantic Richfield	Buffalo Gulch sub-drainage monitoring station located upstream of SS-05 and below storm sewer outlet culvert.														
Butte Metro Sewage Treatment Plant (STP)																
SS-STP	BSB	Outfall of Metro Sewage Treatment Plant before it reaches SBC directly upstream of SS-07.														
Grove Gulch (GG)																
GG-01	Atlantic Richfield	Grove Gulch monitoring location upstream of confluence with BTC. Located in channel on east side of Oregon Street.														
GG-04	Atlantic Richfield	Located within the Grove Gulch channel on the south side of I-90.														

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Automated Stage/Flow													Notes
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Blacktail Creek (BTC)																	
GG-BTC	Atlantic Richfield	Grove Gulch sub-drainage monitoring station located upstream of SS-04 and below the Clark Tailings repository; located on BTC at outlet culvert from GG.						X	X	X	X	X	X	X			Stage/Flow monitoring conducted during storm water season. GG-BTC replaced GG-04 in 2009.
SS-01	Atlantic Richfield	Blacktail Creek (BTC) USGS Station at Harrison Ave, upstream of the BPSOU.		X				X	X	X	X	X	X	X	X	X	Stage/Flow and pH monitoring conducted continuously. NF and WW station 2020 QAPP.
SS-01P	Atlantic Richfield	Located at SS-01 sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.													X	X	Monitoring effort to statistically evaluate current sampling collection results with the results of samples collected simultaneously utilizing modified intakes.
SS-01.35	USGS	Blacktail Creek station upstream of GG-BTC.													X	X	Stage only monitoring 2/21/20-4/30/20. USGS stage/flow monitoring beginning 4/30/20.
SS-01.6	Atlantic Richfield	Blacktail Creek station downstream of Lexington Ave bridge.											X	X			NF station. Continual stage monitoring April 2018 - May 2020. Station removed 2020 QAPP.
SS-04	Atlantic Richfield	Blacktail Creek station upstream of its confluence with the uSBC near George Street.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NF and WW station. USGS continual stage/flow monitoring through 10/31/19. Site impacted by backwater from BMFOU pilot project discharge, thus impacting usability and development of stage-discharge relationship. USGS continual stage only through 4/30/20. Atlantic Richfield 2020 continuous stage monitoring since 6/5/20.
Buffalo Gulch (BG)																	
BG-01	Atlantic Richfield	Buffalo Gulch sub-drainage monitoring station located upstream of SS-05 and below storm sewer outlet culvert.						X	X	X	X	X					NF monitoring sites reduced in 2010 under proposed IMP; immeasurable flow at NF conditions. Site removed from water quality sampling (2016 IMP). Replaced with diagnostic site BG-CLV-01.
Butte Metro Sewage Treatment Plant (STP)																	
SS-STP	BSB	Outfall of Metro Sewage Treatment Plant before it reaches SBC directly upstream of SS-07.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NF monitoring sites reduced in 2010 under proposed IMP. Daily flow is recorded by Butte Silver Bow.
Grove Gulch (GG)																	
GG-01	Atlantic Richfield	Grove Gulch monitoring location upstream of confluence with BTC. Located in channel on east side of Oregon Street.															Monitored when flowing 2008 and 2009. Station was replaced by GG-04 April 2009. Only monitored for NF from 2009 to 2012.
GG-04	Atlantic Richfield	Located within the Grove Gulch channel on the south side of I-90.															For WW monitoring, GG-04 was replaced by GG-BTC in April 2009.

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Monthly Chemistry/Flow													
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Hydraulic Control Channel (HCC)																
MSD-HCC/ HCC-07	Atlantic Richfield	Hydraulic Control Channel (HCC) endpoint monitoring station; monitored when wet weather flow overtops the berm and enters SBC.						FG								
Upper Silver Bow Creek																
MSD-CLV-3A	Atlantic Richfield	Post reclamation uSBC station located upstream of confluence with BTC, just east of Kaw Ave, and upstream of the end of the sub-drain collection pipe.	FG	FG	FG	FG	FG									
MSD-CASEYSD	Atlantic Richfield	Located in the channel between Casey St. and uSBC.														
MSD-HAB	Atlantic Richfield	Post reclamation uSBC station located at the Anaconda Road/Butte Brewery outflow point (comparable to stations MSD-HA and MSD-2).														
MSD-OUT	Atlantic Richfield	Located at confluence of uSBC & BTC.	FG	FG				FG	FG	FG	FG					
MSD-TXSD	Atlantic Richfield	Located within uSBC, on the north side of Civic Center Road.														
Missoula Gulch (MG)																
MG-EFS5B	Atlantic Richfield	Missoula Gulch Catch Basin Overflow Channel discharge point to SBC. Monitored during periods of discharge.														
SS-CB1	Atlantic Richfield	At Syndicate pit, Missoula Gulch station that monitors stage within Catch Basin 1.														
SS-CB8	Atlantic Richfield	Missoula Gulch station that monitors MG and WSD outfalls prior to entering Catch Basin 8.	FG													
SS-CB8P	BSB	Missoula Gulch station that monitors stage within Catch Basin 8.														
SS-CB9	Atlantic Richfield	Catch Basin 9, continual recorder site identification. Monitors CB-9 stage. This stage ID corresponds to sample site ID SS-CB9P.														
SS-CB9P	BSB	Missoula Gulch station that monitors stage within Catch Basin 9.														

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Wet Weather Chemistry												
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Hydraulic Control Channel (HCC)																
MSD-HCC/ HCC-07	Atlantic Richfield	Hydraulic Control Channel (HCC) endpoint monitoring station; monitored when wet weather flow overtops the berm and enters SBC.														
Upper Silver Bow Creek																
MSD-CLV-3A	Atlantic Richfield	Post reclamation uSBC station located upstream of confluence with BTC, just east of Kaw Ave, and upstream of the end of the sub-drain collection pipe.	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC					
MSD-CASEYSD	Atlantic Richfield	Located in the channel between Casey St. and uSBC.		FG	FG											
MSD-HAB	Atlantic Richfield	Post reclamation uSBC station located at the Anaconda Road/Butte Brewery outflow point (comparable to stations MSD-HA and MSD-2).	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC					
MSD-OUT	Atlantic Richfield	Located at confluence of uSBC & BTC.														
MSD-TXSD	Atlantic Richfield	Located within uSBC, on the north side of Civic Center Road.		FG												
Missoula Gulch (MG)																
MG-EFS5B	Atlantic Richfield	Missoula Gulch Catch Basin Overflow Channel discharge point to SBC. Monitored during periods of discharge.	FG	FG	D-TEC	FG	FG	FG	FG	D-TEC	D-TEC					
SS-CB1	Atlantic Richfield	At Syndicate pit, Missoula Gulch station that monitors stage within Catch Basin 1.														
SS-CB8	Atlantic Richfield	Missoula Gulch station that monitors MG and WSD outfalls prior to entering Catch Basin 8.	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC					
SS-CB8P	BSB	Missoula Gulch station that monitors stage within Catch Basin 8.														
SS-CB9	Atlantic Richfield	Catch Basin 9, continual recorder site identification. Monitors CB-9 stage. This stage ID corresponds to sample site ID SS-CB9P.														
SS-CB9P	BSB	Missoula Gulch station that monitors stage within Catch Basin 9.														

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Catch Basin Chemistry												
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Hydraulic Control Channel (HCC)																
MSD-HCC/ HCC-07	Atlantic Richfield	Hydraulic Control Channel (HCC) endpoint monitoring station; monitored when wet weather flow overtops the berm and enters SBC.														
Upper Silver Bow Creek																
MSD-CLV-3A	Atlantic Richfield	Post reclamation uSBC station located upstream of confluence with BTC, just east of Kaw Ave, and upstream of the end of the sub-drain collection pipe.														
MSD-CASEYSD	Atlantic Richfield	Located in the channel between Casey St. and uSBC.														
MSD-HAB	Atlantic Richfield	Post reclamation uSBC station located at the Anaconda Road/Butte Brewery outflow point (comparable to stations MSD-HA and MSD-2).														
MSD-OUT	Atlantic Richfield	Located at confluence of uSBC & BTC.														
MSD-TXSD	Atlantic Richfield	Located within uSBC, on the north side of Civic Center Road.														
Missoula Gulch (MG)																
MG-EFS5B	Atlantic Richfield	Missoula Gulch Catch Basin Overflow Channel discharge point to SBC. Monitored during periods of discharge.														
SS-CB1	Atlantic Richfield	At Syndicate pit, Missoula Gulch station that monitors stage within Catch Basin 1.		FG	FG	FG	FG	FG	FG							
SS-CB8	Atlantic Richfield	Missoula Gulch station that monitors MG and WSD outfalls prior to entering Catch Basin 8.														
SS-CB8P	BSB	Missoula Gulch station that monitors stage within Catch Basin 8.		FG	FG	FG	FG	FG	FG							
SS-CB9	Atlantic Richfield	Catch Basin 9, continual recorder site identification. Monitors CB-9 stage. This stage ID corresponds to sample site ID SS-CB9P.		FG	FG											
SS-CB9P	BSB	Missoula Gulch station that monitors stage within Catch Basin 9.				FG	FG	FG	FG							

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Automated Stage/Flow													Notes
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Hydraulic Control Channel (HCC)																	
MSD-HCC/ HCC-07	Atlantic Richfield	Hydraulic Control Channel (HCC) endpoint monitoring station; monitored when wet weather flow overtops the berm and enters SBC.	X	X	X	X	X	X	X	X	X						Flow/Stage monitoring conducted through 2/2016. Site eliminated (2016 IMP).
Upper Silver Bow Creek																	
MSD-CLV-3A	Atlantic Richfield	Post reclamation uSBC station located upstream of confluence with BTC, just east of Kaw Ave, and upstream of the end of the sub-drain collection pipe.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Stage/Flow monitoring conducted continuously. Checked for flow under NF monitoring. Site removed from water quality sampling (2016 IMP).
MSD-CASEYSD	Atlantic Richfield	Located in the channel between Casey St. and uSBC.															Sampled opportunistically.
MSD-HAB	Atlantic Richfield	Post reclamation uSBC station located at the Anaconda Road/Butte Brewery outflow point (comparable to stations MSD-HA and MSD-2).						X	X	X	X						Stage/Flow monitoring conducted during storm water season, in pipe at diagnostic site AR-MH-1. Site removed from water quality sampling (2016 IMP).
MSD-OUT	Atlantic Richfield	Located at confluence of uSBC & BTC.															Monitored under NF conditions in 2008 and 2009 to monitor water leaving the MSD. Flows were immeasurable at NF conditions.
MSD-TXSD	Atlantic Richfield	Located within uSBC, on the north side of Civic Center Road.															Sampled opportunistically.
Missoula Gulch (MG)																	
MG-EFS5B	Atlantic Richfield	Missoula Gulch Catch Basin Overflow Channel discharge point to SBC. Monitored during periods of discharge.															Sampled in the event CB-9 discharge is flowing into the creek. Manual flow measurements conducted when grab sample obtained. Site removed from water quality sampling (2016 IMP).
SS-CB1	Atlantic Richfield	At Syndicate pit, Missoula Gulch station that monitors stage within Catch Basin 1.		X	X	X	X	X	X	X	X	X	X	X	X	X	Monitors stage at outlet of Catch Basin 1.
SS-CB8	Atlantic Richfield	Missoula Gulch station that monitors MG and WSD outfalls prior to entering Catch Basin 8.															Stage/Flow continuously monitored at the outlet structure of basin at site SS-CB8P.
SS-CB8P	BSB	Missoula Gulch station that monitors stage within Catch Basin 8.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Sampled by BSB if stage/turbidity dependent sampling criteria met. Removed from WQ sampling in 2015.
SS-CB9	Atlantic Richfield	Catch Basin 9, continual recorder site identification. Monitors CB-9 stage. This stage ID corresponds to sample site ID SS-CB9P.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Monitors stage at outlet of Catch Basin 9.
SS-CB9P	BSB	Missoula Gulch station that monitors stage within Catch Basin 9.															Sampled by BSB if stage/turbidity dependent sampling criteria met. Removed from WQ sampling in 2015.

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Monthly Chemistry/Flow												
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Montana Pole Treatment Plant (MPTP)																
SS-MPTP	DEQ	Montana Pole Treatment Plant effluent at SBC.	FG	FG												
Silver Bow Creek (SBC)																
CT-EFS7	Atlantic Richfield	BTL outflow located upstream of SS-06G.	FG					FG	FG							
SS-05	Atlantic Richfield	SBC station at Montana Street, downstream of the MSD-BTC confluence and below the BG outfall.	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
SBC-SED-B8	Atlantic Richfield	Station located below SS-05 in the slag canyon. Off of the redzone parking lot.														
SS-05A	Atlantic Richfield	Station located at the beginning of the SBC rebuilt floodplain and the east end of LAO, and downstream of old SBC diversion channel.	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
SS-05B	Atlantic Richfield	Located downstream of SS-05A.														
SS-05.7	Atlantic Richfield	Station located in SBC rebuilt floodplain, downstream of SS-05 and upstream of old SBC diversion channel.	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG		
SS-05.9/ SS-05.9R	Atlantic Richfield	Station located in SBC rebuilt floodplain downstream of old SBC diversion channel and upstream of SS-05A.	FG	FG	FG	FG	FG	FG	FG	FG						
SS-06A	Atlantic Richfield	Station located in rebuilt SBC floodplain upstream of the Montana Pole Treatment Plant (MPTP) effluent discharge.	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
SS-06F	Atlantic Richfield	Station located in rebuilt SBC floodplain downstream of the MPTP and Butte Treatment Lagoons discharge points and upstream of SS-06G.			FG	FG	FG	FG	FG	FG						

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Wet Weather Chemistry												
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Montana Pole Treatment Plant (MPTP)																
SS-MPTP	DEQ	Montana Pole Treatment Plant effluent at SBC.														
Silver Bow Creek (SBC)																
CT-EFS7	Atlantic Richfield	BTL outflow located upstream of SS-06G.														
SS-05	Atlantic Richfield	SBC station at Montana Street, downstream of the MSD-BTC confluence and below the BG outfall.	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO
SBC-SED-B8	Atlantic Richfield	Station located below SS-05 in the slag canyon. Off of the redzone parking lot.														
SS-05A	Atlantic Richfield	Station located at the beginning of the SBC rebuilt floodplain and the east end of LAO, and downstream of old SBC diversion channel.	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	
SS-05B	Atlantic Richfield	Located downstream of SS-05A.														
SS-05.7	Atlantic Richfield	Station located in SBC rebuilt floodplain, downstream of SS-05 and upstream of old SBC diversion channel.														
SS-05.9/ SS-05.9R	Atlantic Richfield	Station located in SBC rebuilt floodplain downstream of old SBC diversion channel and upstream of SS-05A.														
SS-06A	Atlantic Richfield	Station located in rebuilt SBC floodplain upstream of the Montana Pole Treatment Plant (MPTP) effluent discharge.	D-TEC	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO
SS-06F	Atlantic Richfield	Station located in rebuilt SBC floodplain downstream of the MPTP and Butte Treatment Lagoons discharge points and upstream of SS-06G.														

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Catch Basin Chemistry												
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Montana Pole Treatment Plant (MPTP)																
SS-MPTP	DEQ	Montana Pole Treatment Plant effluent at SBC.														
Silver Bow Creek (SBC)																
CT-EFS7	Atlantic Richfield	BTL outflow located upstream of SS-06G.														
SS-05	Atlantic Richfield	SBC station at Montana Street, downstream of the MSD-BTC confluence and below the BG outfall.														
SBC-SED-B8	Atlantic Richfield	Station located below SS-05 in the slag canyon. Off of the redzone parking lot.														
SS-05A	Atlantic Richfield	Station located at the beginning of the SBC rebuilt floodplain and the east end of LAO, and downstream of old SBC diversion channel.														
SS-05B	Atlantic Richfield	Located downstream of SS-05A.														
SS-05.7	Atlantic Richfield	Station located in SBC rebuilt floodplain, downstream of SS-05 and upstream of old SBC diversion channel.														
SS-05.9/ SS-05.9R	Atlantic Richfield	Station located in SBC rebuilt floodplain downstream of old SBC diversion channel and upstream of SS-05A.														
SS-06A	Atlantic Richfield	Station located in rebuilt SBC floodplain upstream of the Montana Pole Treatment Plant (MPTP) effluent discharge.														
SS-06F	Atlantic Richfield	Station located in rebuilt SBC floodplain downstream of the MPTP and Butte Treatment Lagoons discharge points and upstream of SS-06G.														

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Automated Stage/Flow													Notes
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Montana Pole Treatment Plant (MPTP)																	
SS-MPTP	DEQ	Montana Pole Treatment Plant effluent at SBC.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NF monitoring sites reduced in 2010 under proposed IMP. SCADA sytem installed to monitor flow.
Silver Bow Creek (SBC)																	
CT-EFS7	Atlantic Richfield	BTL outflow located upstream of SS-06G.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Constant flow into SBC at 2-3 cfs. Recorded by facility operator (PTS).
SS-05	Atlantic Richfield	SBC station at Montana Street, downstream of the MSD-BTC confluence and below the BG outfall.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NF and WW station. Atlantic Richfield continuous stage/flow monitoring. USGS continual stage monitoring since 6/11/20, USGS continual stage/flow since 10/26/20.
SBC-SED-B8	Atlantic Richfield	Station located below SS-05 in the slag canyon. Off of the redzone parking lot.						X	X	X	X	X	X	X	X	X	Transducer intermittently deployed since 2013 for BRW Capture Effectiveness study.
SS-05A	Atlantic Richfield	Station located at the beginning of the SBC rebuilt floodplain and the east end of LAO, and downstream of old SBC diversion channel.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NF and WW station. Continuous stage/flow monitoring. BRW Capture Effectiveness study.
SS-05B	Atlantic Richfield	Located downstream of SS-05A.						X	X	X	X	X	X	X	X	X	Transducer intermittently deployed since 2013 for BRW Capture Effectiveness study.
SS-05.7	Atlantic Richfield	Station located in SBC rebuilt floodplain, downstream of SS-05 and upstream of old SBC diversion channel.						X	X	X	X	X	X	X	X	X	NF station. Station added Sept 2007 to find the source of Cu gain between SS-05 and SS-05A. Transducer intermittently deployed since 2013 for BRW Capture Effectiveness study.
SS-05.9/ SS-05.9R	Atlantic Richfield	Station located in SBC rebuilt floodplain downstream of old SBC diversion channel and upstream of SS-05A.						X	X	X	X	X	X	X	X	X	Station added Sept 2007 to find the source of Cu gain between SS-05 and SS-05A. This station was changed to SS-05.9R in 2012 after a downstream culvert was removed. Site removed from water quality sampling (2016 IMP). Transducer intermittently deployed since 2013 for BRW Capture Effectiveness study.
SS-06A	Atlantic Richfield	Station located in rebuilt SBC floodplain upstream of the Montana Pole Treatment Plant (MPTP) effluent discharge.		X	X	X	X	X	X	X	X	X	X	X	X	X	NF and WW station. Continual stage recorder added in April 2009 when the mechanical WW sampler was replaced with an automatic WW sampler.
SS-06F	Atlantic Richfield	Station located in rebuilt SBC floodplain downstream of the MPTP and Butte Treatment Lagoons discharge points and upstream of SS-06G.															Station added May 2010 to validate SS-06G flow measurements.

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Monthly Chemistry/Flow													
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
SS-06G	Atlantic Richfield	Station located at end of the SBC rebuilt floodplain at the west end of LAO, downstream of the Montana Pole Treatment Plant and Butte Treatment Lagoons discharge points and upstream of the historic HCC outlet and the Butte Metro Sewage Treatment Plant effluent.	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
SS-06G-P	Atlantic Richfield	Located at SS-06G sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.														
SS-06G-H	Atlantic Richfield	Located at SS-06G sampling site. A horizontally integrated sampling technique. Samples were collected from an intake tube mounted horizontally in the stream, consisting of six intakes spaced 6" apart. Samples were composited every ten minutes per hour per sample comprising four samples total.														
SS-06G-V	Atlantic Richfield	Located at SS-06G sampling site. A vertically integrated sampling technique. Samples were collected from an intake tube mounted vertically in the stream, consisting of seven intakes spaced 3" apart. Samples were composited every ten minutes per hour per sample comprising four samples total.														
SS-06H	Atlantic Richfield	Station located downstream of SS-06G and historic HCC outlet and upstream of the Butte Metro Sewage Treatment Plant effluent.			FG	FG	FG	FG	FG	FG						
SS-07	USGS	Station located downstream of all BPSOU drainage outfalls as SBC exits the OU near Interstate 90.	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG	FG
SS-07P	USGS	Located at SS-07 sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.														
West Side (WS)																
WSD	Atlantic Richfield	West side drainage (WSD) channel downstream of WS-1 culvert.	FG		FG											

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Wet Weather Chemistry													
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
SS-06G	Atlantic Richfield	Station located at end of the SBC rebuilt floodplain at the west end of LAO, downstream of the Montana Pole Treatment Plant and Butte Treatment Lagoons discharge points and upstream of the historic HCC outlet and the Butte Metro Sewage Treatment Plant effluent.	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO		ISCO	ISCO	ISCO
SS-06G-P	Atlantic Richfield	Located at SS-06G sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.									ISCO	ISCO	ISCO	ISCO	ISCO	ISCO
SS-06G-H	Atlantic Richfield	Located at SS-06G sampling site. A horizontally integrated sampling technique. Samples were collected from an intake tube mounted horizontally in the stream, consisting of six intakes spaced 6" apart. Samples were composited every ten minutes per hour per sample comprising four samples total.									ISCO	ISCO	ISCO	ISCO		
SS-06G-V	Atlantic Richfield	Located at SS-06G sampling site. A vertically integrated sampling technique. Samples were collected from an intake tube mounted vertically in the stream, consisting of seven intakes spaced 3" apart. Samples were composited every ten minutes per hour per sample comprising four samples total.									ISCO	ISCO	ISCO	ISCO		
SS-06H	Atlantic Richfield	Station located downstream of SS-06G and historic HCC outlet and upstream of the Butte Metro Sewage Treatment Plant effluent.														
SS-07	USGS	Station located downstream of all BPSOU drainage outfalls as SBC exits the OU near Interstate 90.	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO
SS-07P	USGS	Located at SS-07 sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.													ISCO	ISCO
West Side (WS)																
WSD	Atlantic Richfield	West side drainage (WSD) channel downstream of WS-1 culvert.	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC	D-TEC					

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Catch Basin Chemistry													
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
SS-06G	Atlantic Richfield	Station located at end of the SBC rebuilt floodplain at the west end of LAO, downstream of the Montana Pole Treatment Plant and Butte Treatment Lagoons discharge points and upstream of the historic HCC outlet and the Butte Metro Sewage Treatment Plant effluent.														
SS-06G-P	Atlantic Richfield	Located at SS-06G sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.														
SS-06G-H	Atlantic Richfield	Located at SS-06G sampling site. A horizontally integrated sampling technique. Samples were collected from an intake tube mounted horizontally in the stream, consisting of six intakes spaced 6" apart. Samples were composited every ten minutes per hour per sample comprising four samples total.														
SS-06G-V	Atlantic Richfield	Located at SS-06G sampling site. A vertically integrated sampling technique. Samples were collected from an intake tube mounted vertically in the stream, consisting of seven intakes spaced 3" apart. Samples were composited every ten minutes per hour per sample comprising four samples total.														
SS-06H	Atlantic Richfield	Station located downstream of SS-06G and historic HCC outlet and upstream of the Butte Metro Sewage Treatment Plant effluent.														
SS-07	USGS	Station located downstream of all BPSOU drainage outfalls as SBC exits the OU near Interstate 90.														
SS-07P	USGS	Located at SS-07 sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.														
West Side (WS)																
WSD	Atlantic Richfield	West side drainage (WSD) channel downstream of WS-1 culvert.														

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 3. BPSOU Surface Water Monitoring Stations 2008-2021

Station	Responsible Party	Description	Automated Stage/Flow													Notes
			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
SS-06G	Atlantic Richfield	Station located at end of the SBC rebuilt floodplain at the west end of LAO, downstream of the Montana Pole Treatment Plant and Butte Treatment Lagoons discharge points and upstream of the historic HCC outlet and the Butte Metro Sewage Treatment Plant effluent.		X	X	X	X	X	X	X	X	X	X	X	X	X	NF and WW station. Continuously monitored pH/temperature data collected at SS-06G and applicable to SS-06G-P, SS-06G-H, SS-06G-V.
SS-06G-P	Atlantic Richfield	Located at SS-06G sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.									X	X	X	X	X	X	Monitoring effort to statistically evaluate current sampling collection results with the results of samples collected simultaneously utilizing modified intakes.
SS-06G-H	Atlantic Richfield	Located at SS-06G sampling site. A horizontally integrated sampling technique. Samples were collected from an intake tube mounted horizontally in the stream, consisting of six intakes spaced 6" apart. Samples were composited every ten minutes per hour per sample comprising four samples total.									X	X	X	X			Monitoring effort to statistically evaluate current sampling collection results with the results of samples collected simultaneously utilizing modified intakes. Station discontinued 2020 QAPP.
SS-06G-V	Atlantic Richfield	Located at SS-06G sampling site. A vertically integrated sampling technique. Samples were collected from an intake tube mounted vertically in the stream, consisting of seven intakes spaced 3" apart. Samples were composited every ten minutes per hour per sample comprising four samples total.									X	X	X	X			Monitoring effort to statistically evaluate current sampling collection results with the results of samples collected simultaneously utilizing modified intakes. Station discontinued 2020 QAPP.
SS-06H	Atlantic Richfield	Station located downstream of SS-06G and historic HCC outlet and upstream of the Butte Metro Sewage Treatment Plant effluent.															Station added May 2010 to assess potential impacts from groundwater or HCC. Site removed from water quality sampling (2016 IMP).
SS-07	USGS	Station located downstream of all BPSOU drainage outfalls as SBC exits the OU near Interstate 90.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NF and WW station. Preliminary data from USGS used to prepare Stage/Flow hydrographs. pH/temperature monitored continuously.
SS-07P	USGS	Located at SS-07 sampling site. A point source sampling technique. Samples were collected from a single intake and were composited every ten minutes per hour per sample, comprising four samples total.													X	X	Monitoring effort to statistically evaluate current sampling collection results with the results of samples collected simultaneously utilizing modified intakes.
West Side (WS)																	
WSD	Atlantic Richfield	West side drainage (WSD) channel downstream of WS-1 culvert.															Eliminated from NF monitoring in 2009. Flow at WSD does not impact SBC water quality. Diagnostic site through 2019.

FG = Field Grab
D-TEC = Automatic D-TEC Sampler
ISCO = Automatic ISCO Sampler

Table 4. BPSOU 2021 Surface Water Diagnostic Monitoring Stations 2008-2021

Station ID	Description of Sample Location	2013	2014	2015	2016	2017	2018	2019	2020	2021	Flow Meter Type	Notes
Anaconda Road - Butte Brewery (AR)												
AR-CLV-1A	Provides diagnostic monitoring for the AR drainage where the drainage enters SBC upstream of the confluence with BTC and which primarily collects an industrial area.				ISCO							Monitoring conducted in 2016 for expanded analysis.
AR-CLV-2	Provides diagnostic monitoring for the upper portion of the AR drainage after a split in storm drain trunk line (monitoring east leg of trunk line). This location is just upstream of a detention pond just downstream of a rail yard.	ISCO	ISCO								Area Velocity Meter	
AR-CLV-2A	Provides diagnostic monitoring for the outfall to the detention pond for which AR-CLV-1 monitors the inlet.		DTEC									
AR-HD-IN	Lower portion of the Anaconda Road, south of Hebgen Park.	ISCO	ISCO									
AR-HD-OUT		ISCO	ISCO								Area Velocity Meter	
AR-MH-1	Provides diagnostic monitoring for the AR drainage just upstream of where the drainage enters SBC upstream of the confluence with BTC and which primarily collects an industrial area.	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO			Area Velocity Meter	Diagnostic monitoring site 2021 QAPP. Monitoring began in 2013 using long duration ISCO and for expanded analysis in 2015.
EX-AR-CLV-1A	Provides diagnostic monitoring for the AR drainage at the mouth of the culvert where the drainage enters SBC upstream of the confluence with BTC and which primarily collects an industrial area.				ISCO							Monitoring conducted in 2016 for expanded analysis using modified ISCO program designed to collect large quantity of water.
EX-AR-MH-1	Provides diagnostic monitoring for the AR drainage just upstream of where the drainage enters SBC upstream of the confluence with BTC and which primarily collects an industrial area.		ISCO	ISCO								Expanded sampling occurred 2014 and 2015. ISCO 24L composited sample.
Blacktail Creek (BTC)												
EX-SS-04	Blacktail Creek station upstream of its confluence with SBC upstream of the confluence with BTC near George Street.		ISCO	ISCO	ISCO							Monitoring conducted in 2014, 2015, and 2016 for expanded analysis using modified ISCO program designed to collect large quantity of water.
Buffalo Gulch (BG)												
BG-CLV-B3	Provides diagnostic monitoring downstream of rail yard.		ISCO	ISCO	ISCO	ISCO	ISCO	ISCO			Area Velocity Meter	
BG-CH-C1	Provides diagnostic monitoring for east BG just before the drainage enters SBC upstream of the confluence with BTC and which collects an urban area.	ISCO	ISCO	ISCO	ISCO						Area Velocity Meter	Monitoring occurred 2013-2016 using long duration ISCO and for expanded analysis.
BG-CH-C1A	Culvert outlet that monitors East Buffalo Gulch just before the drainage enters SBC above the confluence with BTC. Upstream of BG-CH-C1.				ISCO	ISCO	ISCO				Area Velocity Meter	
BG-CLV-C1A	Culvert outlet that monitors East Buffalo Gulch just before the drainage enters SBC above the confluence with BTC. Downstream of BG-CH-C1.							ISCO			Area Velocity Meter	
BG-CLV-1	Provides diagnostic monitoring for the entire BG drainage.	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	Area Velocity Meter	Monitoring began in 2013 using long-duration ISCO and for expanded analysis in 2015.
BG-CLV-0	Provides diagnostic monitoring to measure sediment fallout between BG-CLV-1 and BG-CLV-0.						ISCO				Area Velocity Meter	

Table 4. BPSOU 2021 Surface Water Diagnostic Monitoring Stations 2008-2021

Station ID	Description of Sample Location	2013	2014	2015	2016	2017	2018	2019	2020	2021	Flow Meter Type	Notes
BG-HD-IN	Located north of W. Front St between S. Montana St and Kaw Ave.	ISCO	ISCO									
BG-HD-OUT		ISCO	ISCO								Area Velocity Meter	
BG-MH-A1	Provides diagnostic monitoring for the upper portion of the urban area of BG above a major storm drain trunk line split and between.	ISCO	ISCO								Area Velocity Meter	
BG-MH-A3	Provides diagnostic monitoring for the urban area of BG between BG-A-1 and BG-A-3.	ISCO	ISCO								Area Velocity Meter	
BG-MH-A5	Provides diagnostic monitoring for the upper portion of BG below several BRES sites. This staion also provides a baseline for BG-A-3 with the difference in loading between the two stations indicating any contribution to loading from the lower BG urban area.	ISCO	ISCO								Area Velocity Meter	
BG-MH-A10	Provides diagnostic monitoring of the east trunk line of the main BG subdrainage and downstream of the Opher site.		ISCO								Area Velocity Meter	
BG-MH-B1	Provides diagnostic monitoring for the lower portion of a sub-drainage of BG which collects an urban area.	ISCO	ISCO								Area Velocity Meter	
BG-MH-B2	Provides diagnostic monitoring of a portion of the upper portion of the middle Buffalo Gulch-sub-drainage, particularly just downstream of Pioneer Concrete. This is a combination sample from the gutter flow into the inlet from E. 2nd St to the east of the inlet and Delware Ave to the north of the inlet.		FG									
BG-MH-B2E	Provides diagnostic monitoring of a portion of the upper portion of the middle Buffalo Gulch-sub-drainage, particularly just downstream of Pioneer Concrete. This sample is from the gutter flow into the inlet from E. 2nd St to the east of the inlet.		DTEC								Area Velocity Meter	
BG-MH-B2N	Provides diagnostic monitoring of a portion of the upper portion of the middle Buffalo Gulch-sub-drainage, particularly just downstream of Pioneer Concrete. This sample is from the gutter flow into the inlet from Delaware Ave to the north of the inlet.		DTEC								Area Velocity Meter	
BG-MH-B3A	Manual opportunistic monitoring station upstream and east of BG-B-3 and provides monitoring of storm drain which drains the rail yard. Located at southwest corner of Triple S lot, east side of Kaw.		DTEC									
BG-MH-B3B	Manual opportunistic monitoring station upstream and north of BG-B3 and provides monitoring of the storm drain which drains Front Street and the area north of Front street to the north of this location. Located at Front and Main, west of intersection.		DTEC									
BG-MH-C2	Provides diagnostic monitoring of the upper portion of the east Buffalo Gulch sub-drainage, north of E 3rd St.		ISCO								Area Velocity Meter	
EX-BG-CH-B3	Provides diagnostic monitoring downstream of rail yard.		ISCO									Monitoring conducted in 2014 for expanded analysis using modified ISCO program designed to collect large quantity of water.

Table 4. BPSOU 2021 Surface Water Diagnostic Monitoring Stations 2008-2021

Station ID	Description of Sample Location	2013	2014	2015	2016	2017	2018	2019	2020	2021	Flow Meter Type	Notes
EX-BG-CH-C1	Provides diagnostic monitoring for east BG just before the drainage enters SBC upstream of the confluence with BTC and which collects an urban area.		ISCO	ISCO	ISCO							Monitoring conducted in 2014, 2015 and 2016 for expanded analysis using modified ISCO program designed to collect large quanitiy of water.
EX-BG-CLV-1	Provides diagnostic monitoring for the entire BG drainage.		ISCO	ISCO	ISCO							Monitoring conducted in 2014, 2015, and 2016 for expanded analysis using modified ISCO program designed to collect large quanitiy of water.
Belmont Diversion Channel (BL)												
BL-MH-1	Located in a manhole on the Belmont diversion channel prior to discharge into the Berkeley Pit.			ISCO							Transducer/Bubbler	Monitored in 2015.
Grove Gulch (GG)												
GG-CH-1	Provides diagnostic monitoring of the GG drainage just before entering BTC. This drainage is primarily urban.		ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	Area Velocity Meter	
GG-CH-3	Provides diagnostic monitoring of a sub-drainage of the the Grove Gulch drainage at the upper reach of the Grove Gulch drainage. This drainage is primarily rural.			D-TEC								
GG-CLV-2	Provides diagnostic monitoring of the Grove Gulch drainage at the approximate 1/2 point of the urban portion of the Grove Gulch drainage. This drainage is primarily urban.			D-TEC							Area Velocity Meter	
GG-CLV-C	Located in inflow of culvert off Greenwood Avenue. Will provide diagnostic monitoring for uncaptured surface flow in Sub-drainage C							ISCO	ISCO	ISCO	Area Velocity Meter	
GG-CLV-D	Located in inflow of culvert off Greenwood Avenue. Will provide diagnostic monitoring for uncaptured surface flow in Sub-drainage D							ISCO	ISCO	ISCO	Area Velocity Meter	
GG-CLV-I	On MPTP property. Will provide diagnostic monitoring for uncaptured surface flow in Sub-drainage I							ISCO	ISCO	ISCO	Area Velocity Meter	
Idaho Street (ID)												
ID-CLV-1	Provides diagnostic monitoring of most of the IS drainage before entering CB9.		ISCO								Area Velocity Meter	
Locust Street (LC)												
EX-LC-CLV-1	Provides diagnostic monitoring of the urban Locust drainage, at the culvert entering SBC upstream of the confluence with BTC.			ISCO								Single occurance in 2015. Time composited samples used for expanded analysis.
LC-CLV-1	Located in a culvert at the termination of Locust Street, discharges into SBC upstream of the confluence with BTC. Provides diagnostic monitoring at the bottom of a large basin east of SBC upstream of the confluence with BTC.			ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	Area Velocity Meter	

Table 4. BPSOU 2021 Surface Water Diagnostic Monitoring Stations 2008-2021

Station ID	Description of Sample Location	2013	2014	2015	2016	2017	2018	2019	2020	2021	Flow Meter Type	Notes
Missoula Gulch (MG)												
MG-CH-10	Provides diagnostic monitoring of the upper portion of the MG drainage below several BRES sites and the inflow to CB1.	DTEC	DTEC									
MG-CLV-0	Provides diagnostic monitoring of Missoula Gulch discharge entering into Silver Bow Creek between SS-05A and SS-05B.					ISCO	ISCO	ISCO	ISCO	ISCO	Area Velocity Meter	
MG-CLV-1	Provides diagnostic monitoring of outlet for CB9 and thus the outflow for the MG and IS drainages and a portion of the WS drainage.	ISCO	ISCO	ISCO	ISCO						Area Velocity Meter	
MG-CLV-2	Provides diagnostic monitoring of the MG drainage before entering CB8.	ISCO	ISCO	FG							Area Velocity Meter	
MG-MH-9	Provides diagnostic monitoring of the upper portion of the MG and outflow from CB1. This station also provides a baseline for MG-2 with the difference in loading between the two stations indicating any contribution to loading from the lower MG urban area.	ISCO	DTEC									
SS-CB8	Missoula Gulch station that monitors MG and WSD outfalls prior to entering Catch Basin 8.					DTEC	DTEC	DTEC			None	
Montana Pole Treatment Plant (MPTP)												
MPTP-CLV-1	Provides diagnostic monitoring for the eastern portion of the pole treatment plant north of the interstate, in addition to property just east of MPTP that drains into the pole treatment plant. Located just outside the NE corner of the MPTP, across RR tracks.						ISCO	ISCO	ISCO	ISCO	Area Velocity Meter	
Upper Silver Bow Creek												
EX-MSD-CLV-3A	Post reclamation Metro Storm Drain station located upstream of its confluence with BTC, just east of Kaw Ave, and upstream of the end of the sub-drain collection pipe.		ISCO	ISCO	ISCO							Monitoring conducted in 2014, 2015, and 2016 for expanded analysis using modified Isco program designed to collect large quantity of water.
MSD-CH-CIVIC	Provides diagnostic monitoring of the Clearwater Ditch which drains to SBC upstream of the confluence with BTC at the northen end of SBC upstream of the confluence with BTC.		ISCO	D-TEC	D-TEC							
MSD-CLV-3A	Post reclamation Metro Storm Drain station located upstream of its confluence with BTC, just east of Kaw Ave, and upstream of the end of the sub-drain collection pipe.	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	Area Velocity Meter	Diagnostic monitoring site 2020 QAPP. Monitoring began in 2013 using long-duration ISCO. Expanded samples collected 2014-2016.
MSD-CLV-CASEY	Provides diagnostic monitoring for the section of SBC upstream of the confluence with BTC from Casey Ave. to Harrison Ave. (MSD-HAB). There are several small pipe inlets to SBC upstream of the confluence with BTC in this stretch.	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO			Area Velocity Meter	
MSD-CLV-HAB	Post reclamation MSD station located at the Anaconda Road/Butte Brewery outflow point.	ISCO	ISCO	ISCO	ISCO						Area Velocity Meter	

Table 4. BPSOU 2021 Surface Water Diagnostic Monitoring Stations 2008-2021

Station ID	Description of Sample Location	2013	2014	2015	2016	2017	2018	2019	2020	2021	Flow Meter Type	Notes
Silver Bow Creek (SBC)												
EX-SS-07	Station located downstream of all BPSOU drainage outfalls as SBC exits the OU near Interstate 90.		ISCO	ISCO	ISCO							Monitoring conducted in 2014, 2015, and 2016 for expanded analysis using modified Isco program designed to collect large quantity of water.
Texas Avenue (TX)												
EX-TX-HD-1	Provides diagnostic monitoring of the large urban area to the southeast of SBC upstream of the confluence with BTC as it enters the hydrodynamic device.		ISCO								Area Velocity Meter	Expanded sampling occurred 2014. Isco 24L composited sample.
EX-TX-HD-2	Located at the same site as EX-TX-HD-OUT.		ISCO								Area Velocity Meter	Expanded sampling occurred 2014. Isco 24L composited sample.
TX-HD-1	Provides diagnostic monitoring of the large urban area to the southeast of SBC upstream of the confluence with BTC just before this drainage enters SBC upstream of the confluence with BTC.	ISCO	ISCO								Area Velocity Meter	
TX-HD-IN	Located at the same site as TX-HD-1.			ISCO	ISCO							Monitoring occured 2015-2016 using long duration ISCO and for expanded analysis.
TX-HD-OUT	Provide diagnostic monitoring of the large urban area to the southeast of SBC upstream of the confluence with BTC just before the drainage enters SBC upstream of the confluence with BTC.			ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	ISCO	Area Velocity Meter	Station added in 2015 in place of TX-HD-1.
Warren Avenue (WA)												
EX-WA-HD-1	Located at the same site as WA-HD-1.		ISCO									Samples collected in 2014 using modified ISCO program designed to collect large quantity of water.
EX-WA-HD-2	Provides diagnostic monitoring of the WA drainage at the bottom of the basin after the HD device. Upstream of where the drainage enters SBC upstream of the confluence with BTC. The drainage area this station monitors is residential and industrial and includes several BRES sites.			ISCO	ISCO							Samples collected in 2014 using modified ISCO program designed to collect large quantity of water.
EX-WA-HD-IN	Located at the same site as WA-HD-1.		ISCO									Monitoring conducted in 2015 and 2016 for expanded analysis using modified Isco program designed to collect large quantity of water.
WA-CLV-1	Located at the bottom of the Washington Avenue basin at the culvert outlet to SBC upstream of the confluence with BTC.			ISCO	ISCO	ISCO	ISCO	ISCO			Area Velocity Meter	Station added in 2015 in place of WA-HD-1.
WA-HD-1	Provides diagnostic monitoring of the WA drainage at the bottom of the basin before the HD installed at the bottom of the drainage and upstream of where the drainage enters SBC upstream of the confluence with BTC. The drainage area this station monitors is residential and industrial and includes several BRES sites.	ISCO	ISCO								Area Velocity Meter	
WA-HD-IN	Located at the same site as WA-HD-1.			ISCO	ISCO							Monitoring occurred 2015-2016 using long-duration ISCO and for expanded analysis.
WA-MH-5	Provides diagnostic monitoring of the upper portion of the WA drainage.		ISCO								Area Velocity Meter	
West Side (WS)												
WS-CLV-1	Provides diagnostic monitoring of portaion of WS drainage (tributary to CB8).	ISCO	ISCO								Area Velocity Meter	
WSD	West side drainage (WSD) channel downstream of WS-1 culvert.					DTEC	DTEC	DTEC			None	Eliminated from BF monitoring in 2009. Flow at WSD does not impact SBC water quality.

Table 5. BPSOU 2021 Sediment and BMI Stream Reaches

Reach	Description	Associated Surface Water Station	SW Station Location with respect to Reach
1	BTC above BPSOU	SS-01	Endpoint, reach extends ~ 500 ft upstream
2	SBC within BPSOU, below the BTC and SBC confluence within LAO	SS-06A	Approximate midpoint, equal distances upstream and downstream
3	SBC near western boundary of BPSOU	SS-06G	Endpoint, reach extends upstream to just below BTL effluent

Table 6. BPSOU 2021 BMI and Habitat Location Coordinates

Location	SS-01	SS-06A	SS-06G
	Latitude and Longitude		
Sample Replicate A	N 45.98529 W 112.50719	N 45.99428 W 112.55210	N 45.99640 W 112.56271
Sample Replicate B	N 45.98525 W 112.50673	N 45.99431 W 112.55205	N 45.99632 W 112.56228
Sample Replicate C	N 45.98516 W 112.50622	N 45.99453 W 112.55171	N 45.99630 W 112.56206
Sample Replicate D	N 45.98513 W 112.50613	N 45.99464 W 112.55132	N 45.99625 W 112.56164
Habitat Transect A	N 45.98530 W 112.50777	N 45.99424 W 112.55221	N 45.99646 W 112.56290
Habitat Transect B	N 45.98525 W 112.50761	N 45.99431 W 112.55203	N 45.99637 W 112.56258
Habitat Transect C	N 45.98530 W 112.50739	N 45.99446 W 112.55189	N 45.99634 W 112.56245
Habitat Transect D	N 45.98529 W 112.50723	N 45.99451 W 112.55169	N 45.99630 W 112.56223
Habitat Transect E	N 45.98529 W 112.50700	N 45.99462 W 112.55151	N 45.99628 W 112.56201
Habitat Transect F	N 45.98526 W 112.50674	N 45.99467 W 112.55132	N 45.99625 W 112.56182
Habitat Transect G	N 45.98526 W 112.50656	N 45.99454 W 112.55108	N 45.99626 W 112.56166
Habitat Transect H	N 45.98523 W 112.50627	N 45.99442 W 112.55095	N 45.99634 W 112.56147
Habitat Transect I	N 45.98513 W 112.50610	N 45.99436 W 112.55073	N 45.99633 W 112.56135
Habitat Transect J	N 45.98506 W 112.50600	N 45.99432 W 112.55430	N 45.99628 W 112.56129
Habitat Transect K	N 45.98496 W 112.50584	N 45.99437 W 112.55009	N 45.99621 W 112.56114

Table 7a. BPSOU 2021 Climate Station Precipitation - Daily

Date	Basin Creek			Blacktail Canyon (in)	BMMA (in)	BSB Shop (in)	BTL/LAO (in)	CB-1 (in)	Kelley Mine (in)
	Cumulative SWE (in)	SWE (in)	Precip (in)						
2021-01-01	2.2	0	0	0	0	0	0	0	0
2021-01-02	2.2	0	0	0	0	0	0	0	0
2021-01-03	2.2	0	0	0	0	0	0	0.02	0
2021-01-04	2.2	0	0	0	0	0	0	0	0
2021-01-05	2.3	0.1	0	0.03	0.03	0.04	0.02	0.03	0.02
2021-01-06	2.3	0	0	0	0	0.02	0	0	0
2021-01-07	2.3	0	0	0	0.01	0.02	0.02	0.04	0.04
2021-01-08	2.3	0	0	0	0.01	0.01	0	0	0.01
2021-01-09	2.3	0	0	0	0	0	0	0	0
2021-01-10	2.3	0	0.1	0	0	0	0	0	0
2021-01-11	2.4	0.1	0	0	0	0	0	0	0
2021-01-12	2.4	0	0	0	0	0	0	0	0
2021-01-13	2.4	0	0	0.05	0	0	0.01	0.03	0
2021-01-14	2.4	0	0	0	0.03	0	0	0	
2021-01-15	2.4	0	0	0	0	0	0	0	
2021-01-16	2.5	0.1	0	0	0	0	0	0	
2021-01-17	2.5	0	0	0	0	0	0	0	
2021-01-18	2.5	0	0	0	0	0	0	0	
2021-01-19	2.5	0	0	0	0	0.01	0	0.01	0
2021-01-20	2.5	0	0.1	0	0	0	0	0	0
2021-01-21	2.6	0.1	0	0	0	0	0	0	0
2021-01-22	2.6	0	0	0.02	0.02	0.02	0.04	0.05	0.04
2021-01-23	2.6	0	0	0	0	0	0.01	0	0
2021-01-24	2.6	0	0	0	0	0.01	0	0.01	0
2021-01-25	2.6	0	0	0	0	0	0	0	0
2021-01-26	2.6	0	0	0	0	0	0	0	0
2021-01-27	2.6	0	0	0	0	0	0	0	0
2021-01-28	2.6	0	0	0	0	0	0	0	0
2021-01-29	2.7	0.1	0.2	0.23	0	0.01	0	0.01	0.01
2021-01-30	3	0.3	0	0.07	0.07	0.06	0.13	0.15	0.11
2021-01-31	3	0	0	0	0.02	0.02	0	0	0
2021-02-01	3	0	0	0	0	0.02	0	0.02	0
2021-02-02	3	0	0.2	0.18	0	0	0	0	0
2021-02-03	3.3	0.3	0	0.03	0.12	0.05	0.04	0.16	0.1
2021-02-04	3.3	0	0	0.02	0.01	0.01	0.01	0	0
2021-02-05	3.3	0	0	0	0.01	0.04	0.03	0.16	0.08
2021-02-06	3.4	0.1	0.2	0.2	0.03	0.02	0.06	0.14	0.01
2021-02-07	3.6	0.2	0.3	0.34	0.18	0	0	0	0
2021-02-08	4	0.4	0.1	0.08	0.09	0	0.04	0.02	0
2021-02-09	4.1	0.1	0	0	0.05	0	0.01	0.02	0
2021-02-10	4.1	0	0	0	0	0	0	0	0
2021-02-11	4.1	0	0	0.01	0	0	0	0	0
2021-02-12	4.1	0	0.2	0.05	0	0	0	0	
2021-02-13	4.3	0.2	0.2	0.01	0.03	0	0	0	
2021-02-14	4.4	0.1	0.1	0	0.01	0	0	0	0
2021-02-15	4.5	0.1	0	0	0	0.01	0	0	0
2021-02-16	4.5	0	0.2	0.02	0	0	0.01	0	0
2021-02-17	4.6	0.1	0.1	0	0.01	0	0.05	0	0.02
2021-02-18	4.7	0.1	0	0	0	0.01	0	0	0.02
2021-02-19	4.8	0.1	0.1	0.02	0	0.04	0	0.04	0.02
2021-02-20	4.9	0.1	0	0.01	0.02	0.02	0.03	0.08	0.03

Table 7a. BPSOU 2021 Climate Station Precipitation - Daily

Date	Basin Creek			Blacktail Canyon (in)	BMMA (in)	BSB Shop (in)	BTL/LAO (in)	CB-1 (in)	Kelley Mine (in)
	Cumulative SWE (in)	SWE (in)	Precip (in)						
2021-02-21	4.9	0	0.1	0	0	0.05	0	0.04	0.02
2021-02-22	5	0.1	0.1	0	0	0.07	0	0.04	0.06
2021-02-23	5.1	0.1	0	0.05	0.05	0.02	0.01	0	0
2021-02-24	5.1	0	0	0.03	0.01	0.05	0.03	0.06	0.04
2021-02-25	5.1	0	0.1	0	0.01	0	0	0	0
2021-02-26	5.2	0.1	0	0.03	0	0.02	0	0	0
2021-02-27	5.2	0	0.1	0	0.02	0.03	0.02	0.06	0.02
2021-02-28	5.3	0.1	0.1	0	0	0.02	0	0.02	0
2021-03-01	5.4	0.1	0	0	0	0.04	0	0	0
2021-03-02	5.4	0	0	0	0	0	0	0	0
2021-03-03	5.4	0	0	0	0	0	0	0	0
2021-03-04	5.4	0	0	0	0	0	0	0	0
2021-03-05	5.4	0	0	0	0	0	0	0	0
2021-03-06	5.4	0	0	0.03	0	0.01	0	0.01	0.02
2021-03-07	5.4	0	0	0	0.01	0.01	0	0	0
2021-03-08	5.4	0	0.1	0.08	0	0.02	0.02	0.05	0.04
2021-03-09	5.5	0.1	0	0.02	0.11	0.11	0.11	0.14	0.14
2021-03-10	5.5	0	0	0	0	0.02	0	0.01	0.01
2021-03-11	5.5	0	0	0	0	0	0	0	0
2021-03-12	5.5	0	0	0	0	0	0	0	0
2021-03-13	5.5	0	0	0	0	0	0	0	0
2021-03-14	5.5	0	0	0	0	0	0	0	0
2021-03-15	5.5	0	0	0	0	0	0	0	0
2021-03-16	5.5	0	0.1	0	0	0	0	0	0
2021-03-17	5.6	0.1	0	0	0	0	0	0	0
2021-03-18	5.6	0	0	0	0	0	0	0	0
2021-03-19	5.6	0	0.1	0.05	0	0.04	0.09	0.1	0.08
2021-03-20	5.6	0	0	0	0.13	0.03	0	0	0.01
2021-03-21	5.6	0	0	0	0	0		0	
2021-03-22	5.6	0	0	0.01	0	0.01	0.03	0.02	0.01
2021-03-23	5.6	0	0	0	0.04	0.03	0	0.02	0.03
2021-03-24	5.6	0	0.1	0	0.01	0	0	0	0
2021-03-25	5.7	0.1	0.2	0.24	0	0	0	0.01	0
2021-03-26	5.8	0.1	0	0	0.01	0	0	0	0
2021-03-27	5.8	0	0	0	0	0	0	0	0
2021-03-28	5.8	0	0	0	0	0	0	0	0
2021-03-29	5.8	0	0.1	0.03	0.01	0	0	0	0
2021-03-30	5.7	-0.1	0	0	0.01	0	0	0	0
2021-03-31	5.7	0	0.1	0	0	0	0	0	0
2021-04-01	5.8	0.1	0	0	0	0	0	0	0
2021-04-02	5.8	0	0.2	0	0		0	0	0
2021-04-03	5.8	0	0	0	0		0	0	0
2021-04-04	5.8	0	0	0	0		0	0	0
2021-04-05	5.8	0	0.1	0.13	0		0.14	0.15	0.13
2021-04-06	5.9	0.1	0	0	0.11		0	0	0
2021-04-07	5.9	0	0	0	0		0.01	0	0
2021-04-08	5.8	-0.1	0	0.03	0		0	0.02	0.01
2021-04-09	5.7	-0.1	0	0	0.01		0	0	0
2021-04-10	5.6	-0.1	0.1	0	0		0	0	0
2021-04-11	5.6	0	0.4	0	0		0	0	0
2021-04-12	5.6	0	0	0	0		0	0	0

Table 7a. BPSOU 2021 Climate Station Precipitation - Daily

Date	Basin Creek			Blacktail Canyon (in)	BMMA (in)	BSB Shop (in)	BTL/LAO (in)	CB-1 (in)	Kelley Mine (in)
	Cumulative SWE (in)	SWE (in)	Precip (in)						
2021-04-13	5.6	0	0	0	0		0	0	0
2021-04-14	5.7	0.1	0	0	0		0	0	0
2021-04-15	5.7	0	0	0	0		0	0	0
2021-04-16	5.8	0.1	0	0	0		0	0	0
2021-04-17	5.8	0	0	0	0		0	0	0
2021-04-18	5.7	-0.1	0	0	0		0	0	0
2021-04-19	5.7	0	0	0.33	0.09		0.08	0.01	0.05
2021-04-20	5.9	0.2	0	0	0		0	0	0
2021-04-21	5.7	-0.2	0	0	0		0	0	
2021-04-22	5.6	-0.1	0	0.11	0		0.01	0.01	
2021-04-23	5.9	0.3	0	0.04	0.05		0.06	0.08	
2021-04-24	5.9	0	0.1	0.09	0.05		0.01	0.03	
2021-04-25	6.1	0.2	0.1	0.17	0.03		0.12	0.06	
2021-04-26	6.3	0.2	0	0	0.1		0.02	0.05	
2021-04-27	6.2	-0.1	0	0	0		0	0	0
2021-04-28	6.2	0	0	0	0			0	
2021-04-29	6.2	0	0	0	0		0	0	0
2021-04-30	6	-0.2	0.3	0	0		0	0	0
2021-05-01	5.1	-0.9	0	0	0		0	0	0
2021-05-02	4.5	-0.6	0	0	0		0	0	0
2021-05-03	4.3	-0.2	0.1	0	0		0	0	0
2021-05-04	3.9	-0.4	0	0.02	0		0.01	0.05	0.07
2021-05-05	3.5	-0.4	0.3	0	0			0	
2021-05-06	2.9	-0.6	0.5	0	0		0	0	
2021-05-07	1.9	-1	0	0.15	0		0.17	0.15	
2021-05-08	1.4	-0.5	0	0	0.14		0	0	0
2021-05-09	1.4	0	0	0	0		0	0	
2021-05-10	1.5	0.1	0	0	0			0.01	
2021-05-11	1.2	-0.3	0	0	0			0.01	
2021-05-12	0.9	-0.3	0.2	0	0			0	
2021-05-13	0.5	-0.4	0.2	0	0.01			0	
2021-05-14	0	-0.5	0	0	0			0.03	
2021-05-15	0	0	0.2	0	0			0.03	
2021-05-16	0	0	0.3	0	0			0	
2021-05-17	0	0	0	0	0			0	
2021-05-18	0	0	0.1	0	0			0	
2021-05-19	0	0	0	0.06	0		0.02	0.03	0.05
2021-05-20	0	0	0	0.7	0.27		0.36	0.33	0.27
2021-05-21	0.3	0.3	0	0.48	0.26		0.01	0.04	0.01
2021-05-22	0.5	0.2	0.1	0.03	0.17		0.02	0.16	0.12
2021-05-23	0.5	0	0.3	0.21	0.05		0.28	0.3	0.31
2021-05-24	0.8	0.3	0.3	0	0.21		0	0	0
2021-05-25	0.5	-0.3	0.5	0.04	0		0.07	0.09	0.08
2021-05-26	0	-0.5	0	0.04	0.09		0.11	0.05	0.11
2021-05-27	0	0	0.6	0	0.05		0.01	0	0
2021-05-28	0	0	0	0	0		0	0	0
2021-05-29	0	0	0.1	0	0		0	0	0
2021-05-30	0	0	0	0	0		0	0	0
2021-05-31	0	0	0	0	0		0	0	0
2021-06-01	0	0	0	0	0		0	0	0
2021-06-02	0	0	0	0	0		0	0	0

Table 7a. BPSOU 2021 Climate Station Precipitation - Daily

Date	Basin Creek			Blacktail Canyon (in)	BMMA (in)	BSB Shop (in)	BTL/LAO (in)	CB-1 (in)	Kelley Mine (in)
	Cumulative SWE (in)	SWE (in)	Precip (in)						
2021-06-03	0	0	0	0	0		0	0	0
2021-06-04	0	0	0	0.02	0		0	0	
2021-06-05	0	0	0	0	0		0	0	
2021-06-06	0	0	0	0	0		0	0	
2021-06-07	0	0	0	0	0		0	0	
2021-06-08	0	0	0	0	0		0.03	0.04	
2021-06-09	0	0	0.1	0	0.03		0.01	0.01	
2021-06-10	0	0	0	0.33	0		0.25	0.22	0.25
2021-06-11	0	0	0.5	0.01	0.24		0.01	0	
2021-06-12	0	0	0	0	0		0	0	
2021-06-13	0	0	0	0	0		0	0	
2021-06-14	0	0	0	0	0		0	0	0
2021-06-15	0	0	0	0	0		0	0	0
2021-06-16	0	0	0	0	0		0	0	0
2021-06-17	0	0	0	0	0		0	0	0
2021-06-18	0	0	0	0	0		0	0	0
2021-06-19	0	0	0	0	0		0	0	0
2021-06-20	0	0	0	0.06	0		0.11	0.09	0.09
2021-06-21	0	0	0	0.01	0.07		0	0	0
2021-06-22	0	0	0	0	0		0	0	0
2021-06-23	0	0	0	0.08	0.02		0.03	0.04	0.02
2021-06-24	0	0	0	0	0		0	0	0
2021-06-25	0	0	0	0	0		0	0	0
2021-06-26	0	0	0	0	0		0	0	0
2021-06-27	0	0	0	0	0		0	0	0
2021-06-28	0	0	0	0	0		0	0	0
2021-06-29	0	0	0	0	0		0	0	0
2021-06-30	0	0	0	0	0		0	0	0
2021-07-01	0	0	0	0	0		0.23	0.62	0.4
2021-07-02	0	0	0	0	0.06		0.03	0.05	0.06
2021-07-03	0	0	0	0	0.01		0	0	0
2021-07-04	0	0	0	0.02	0		0	0	0
2021-07-05	0	0	0	0.37	0.03		0.01	0.03	0.04
2021-07-06	0	0	0	0	0.2		0	0	0
2021-07-07	0	0	0	0.18	0		0.03	0.02	0.03
2021-07-08	0	0	0	0	0.04		0.01	0	0
2021-07-09	0	0	0	0	0		0	0	0
2021-07-10	0	0	0	0	0		0	0	0
2021-07-11	0	0	0	0	0		0	0	0
2021-07-12	0	0	0	0	0		0	0	0
2021-07-13	0	0	0	0	0		0	0	0
2021-07-14	0	0	0	0	0		0	0	0
2021-07-15	0	0	0	0	0		0	0	0
2021-07-16	0	0	0	0.03	0		0	0	0
2021-07-17	0	0	0	0	0		0	0	0
2021-07-18	0	0	0	0	0		0	0	0
2021-07-19	0	0	0	0	0		0	0	0
2021-07-20	0	0	0	0	0		0.2	0.14	0.23
2021-07-21	0	0	0	0.05	0		0.09	0.02	0.02
2021-07-22	0	0	0	0	0.03		0	0	0
2021-07-23	0	0	0	0	0		0	0	0

Table 7a. BPSOU 2021 Climate Station Precipitation - Daily

Date	Basin Creek			Blacktail Canyon (in)	BMMA (in)	BSB Shop (in)	BTL/LAO (in)	CB-1 (in)	Kelley Mine (in)
	Cumulative SWE (in)	SWE (in)	Precip (in)						
2021-07-24	0	0	0	0	0		0	0	0
2021-07-25	0	0	0	0	0		0	0	0
2021-07-26	0	0	0	0	0		0	0	0
2021-07-27	0	0	0	0	0		0	0	0
2021-07-28	0	0	0	0.01	0		0.04	0	0
2021-07-29	0	0	0	0	0.04		0.02	0.08	0.06
2021-07-30	0	0	0	0	0.02		0	0	0
2021-07-31	0	0	0	0	0		0	0	0
2021-08-01	0	0	0	0.02	0		0.83	1.26	0.38
2021-08-02	0	0	0	0.13	0.04		0.08	0.08	0.45
2021-08-03	0	0	0	0	0.12		0.01	0	0
2021-08-04	0	0	0	0	0		0.01	0.04	0.04
2021-08-05	0	0	0	0.02	0		0.02	0.04	0.05
2021-08-06	0	0	0	0	0.01		0	0.02	0.02
2021-08-07	0	0	0	0	0		0	0	0
2021-08-08	0	0	0	0.24	0		0.28	0.39	0.4
2021-08-09	0	0	0	0.01	0.39		0.01	0	0.01
2021-08-10	0	0	0	0	0		0	0	0
2021-08-11	0	0	0.2	0	0			0	0
2021-08-12	0	0	0.1	0	0			0	
2021-08-13	0	0	0	0	0			0	
2021-08-14	0	0	0	0	0			0	
2021-08-15	0	0	0	0	0			0	0
2021-08-16	0	0	0	0	0			0	0
2021-08-17	0	0	0	0.25	0			0.13	0.12
2021-08-18	0	0	0	0.36	0.32			0.26	0.34
2021-08-19	0	0	0	0.01	0.02			0.01	0
2021-08-20	0	0	0	0.39	0.2			0.27	0.3
2021-08-21	0	0	0	0.65	0.1			0.34	0.23
2021-08-22	0	0	0	0.01	0.42			0	0.15
2021-08-23	0	0	0	0	0			0	0
2021-08-24	0	0	0	0	0			0	0
2021-08-25	0	0	0	0	0			0.01	0
2021-08-26	0	0	0	0	0			0	0
2021-08-27	0	0	0	0	0			0	0
2021-08-28	0	0	0	0	0			0	0
2021-08-29	0	0	0.1	0	0			0	0
2021-08-30	0	0	0	0	0			0	0
2021-08-31	0	0	0	0	0			0	0
2021-09-01	0	0	0	0	0			0	0
2021-09-02	0	0	0	0	0			0	0
2021-09-03	0	0	0	0	0			0	0
2021-09-04	0	0	0	0	0			0	0
2021-09-05	0	0	0	0	0			0	0
2021-09-06	0	0	0	0	0			0	0
2021-09-07	0	0	0	0	0			0	0
2021-09-08	0	0	0	0	0			0	0
2021-09-09	0	0	0	0	0			0	0
2021-09-10	0	0	0	0.06	0			0.1	0.07
2021-09-11	0	0	0	0	0.07			0	0
2021-09-12	0	0	0	0	0			0	0

Table 7a. BPSOU 2021 Climate Station Precipitation - Daily

Date	Basin Creek			Blacktail Canyon (in)	BMMA (in)	BSB Shop (in)	BTL/LAO (in)	CB-1 (in)	Kelley Mine (in)
	Cumulative SWE (in)	SWE (in)	Precip (in)						
2021-09-13	0	0	0	0	0			0	0
2021-09-14	0	0	0	0	0			0	0
2021-09-15	0	0	0	0	0			0	0
2021-09-16	0	0	0	0	0			0	0
2021-09-17	0	0	0	0	0			0	0
2021-09-18	0	0	0	0	0			0	0
2021-09-19	0	0	0	0	0			0	0
2021-09-20	0	0	0	0	0			0.02	0.02
2021-09-21	0	0	0	0	0			0	0
2021-09-22	0	0	0	0	0			0	0
2021-09-23	0	0	0	0	0			0	0
2021-09-24	0	0	0	0	0			0	0
2021-09-25	0	0	0	0	0			0	0
2021-09-26	0	0	0	0	0			0	0
2021-09-27	0	0	0	0	0			0	0
2021-09-28	0	0	0	0.01	0			0	0
2021-09-29	0	0	0	0	0			0	0
2021-09-30	0	0	0	0	0			0	0
2021-10-01	0	0	0	0	0			0	0
2021-10-02	0	0	0	0	0			0	0
2021-10-03	0	0	0	0	0			0	0
2021-10-04	0	0	0.1	0	0			0	0
2021-10-05	0	0	0	0	0			0	0
2021-10-06	0	0	0	0	0			0	0
2021-10-07	0	0	0.1	0.02	0.02			0.01	0.01
2021-10-08	0	0	0.1	0.08	0.02			0	0
2021-10-09	0	0	0	0.02	0.1			0.02	0.01
2021-10-10	0	0	0	0	0			0	0
2021-10-11	0	0	0.1	0.38	0.01			0	0.02
2021-10-12	0.6	0.6	0.2	0	0.07			0	0
2021-10-13	0.7	0.1	0.1	0	0			0.01	0.01
2021-10-14	0.7	0	0	0	0			0.04	0.01
2021-10-15	0.6	-0.1	0.1	0	0			0	0
2021-10-16	0.7	0.1	0	0	0			0	0
2021-10-17	0.6	-0.1	0.1	0	0			0	0
2021-10-18	0.6	0	0	0	0			0	0
2021-10-19	0.6	0	0	0	0			0	0
2021-10-20	0.6	0	0	0	0			0	0
2021-10-21	0.6	0	0.1	0	0			0	0
2021-10-22	0.6	0	0	0	0			0	0
2021-10-23	0.3	-0.3	0	0	0.03			0.02	0
2021-10-24	0.3	0	0	0	0			0	0
2021-10-25	0.3	0	0.2	0.35	0			0.26	0
2021-10-26	0.4	0.1	0	0	0.27			0	0
2021-10-27	0.4	0	0	0	0			0.01	0
2021-10-28	0.4	0	0.2	0	0			0	0
2021-10-29	0.4	0	0	0.01	0			0	0
2021-10-30	0.3	-0.1	0	0	0			0	0
2021-10-31	0.3	0	0	0	0			0	0
2021-11-01	0.3	0	0	0	0			0	
2021-11-02	0.2	-0.1	0	0	0			0.02	

Table 7a. BPSOU 2021 Climate Station Precipitation - Daily

Date	Basin Creek			Blacktail Canyon (in)	BMMA (in)	BSB Shop (in)	BTL/LAO (in)	CB-1 (in)	Kelley Mine (in)
	Cumulative SWE (in)	SWE (in)	Precip (in)						
2021-11-03	0.1	-0.1	0.1	0	0			0.01	0
2021-11-04	0.2	0.1	0.1	0.1	0			0.2	0.23
2021-11-05	0.3	0.1	0	0	0.19			0.01	0
2021-11-06	0.3	0	0	0	0			0	0
2021-11-07	0.2	-0.1	0	0	0			0	0
2021-11-08	0.2	0	0.1	0	0			0	0
2021-11-09	0.2	0	0.1	0	0			0	0
2021-11-10	0.3	0.1	0	0	0			0	0
2021-11-11	0.2	-0.1	0	0	0			0.01	0.01
2021-11-12	0.3	0.1	0.1	0	0.01			0.01	0
2021-11-13	0.4	0.1	0	0	0			0	0
2021-11-14	0.3	-0.1	0	0	0			0	0
2021-11-15	0	-0.3	0.1	0	0			0	0
2021-11-16	0	0	0	0.04	0.01			0.03	0.03
2021-11-17	0	0	0.1	0	0			0	0
2021-11-18	0.1	0.1	0.1	0	0			0	0
2021-11-19	0.2	0.1	0.1	0.01	0		0.01	0.02	0.04
2021-11-20	0.3	0.1	0	0	0.01		0.02	0.02	0.01
2021-11-21	0.3	0	0	0	0		0	0	0
2021-11-22	0.3	0	0	0	0		0	0	0
2021-11-23	0.3	0	0	0	0		0	0	0
2021-11-24	0.3	0	0	0	0		0	0	0
2021-11-25	0.3	0	0.1	0	0		0	0	0
2021-11-26	0.4	0.1	0	0	0		0	0	0
2021-11-27	0.4	0	0	0	0		0	0	0
2021-11-28	0.4	0	0	0	0		0	0	0
2021-11-29	0.5	0.1	0	0.08	0		0.09	0.06	0.08
2021-11-30	0.5	0	0.1	0	0.06		0	0.01	0
2021-12-01	0.6	0.1	0	0	0		0.01	0	0
2021-12-02	0.6	0	0	0	0		0	0	0
2021-12-03	0.4	-0.2	0	0	0		0	0	0
2021-12-04	0.4	0	0	0	0		0	0	0
2021-12-05	0.4	0	0	0.17	0.04		0	0	0
2021-12-06	0.6	0.2	0.2	0.02	0.03		0	0	0
2021-12-07	0.9	0.3	0	0	0.02		0	0.04	0.02
2021-12-08	0.9	0	0	0	0		0.02	0	0.03
2021-12-09	0.9	0	0	0	0		0	0	0
2021-12-10	0.9	0	0	0	0		0	0	0
2021-12-11	0.9	0	0	0	0		0	0	0
2021-12-12	0.9	0	0	0	0		0	0	0
2021-12-13	1	0.1	0.1	0	0		0.02	0.03	0.02
2021-12-14	1.1	0.1	0	0.09	0		0	0	0
2021-12-15	1.3	0.2	0.2	0	0.06		0	0	0
2021-12-16	1.3	0	0.2	0	0		0	0	0
2021-12-17	1.4	0.1	0	0.03	0.02		0	0	0
2021-12-18	1.4	0	0.3	0	0		0	0.01	0
2021-12-19	1.6	0.2	0.1	0.24	0		0	0	0
2021-12-20	1.8	0.2	0.1	0.03	0.06		0.08	0.13	0.1
2021-12-21	1.9	0.1	0	0	0.01		0	0	0
2021-12-22	1.9	0	0	0	0		0	0	0
2021-12-23	1.9	0	0	0.03	0		0	0	0

Table 7a. BPSOU 2021 Climate Station Precipitation - Daily

Date	Basin Creek			Blacktail Canyon (in)	BMMA (in)	BSB Shop (in)	BTL/LAO (in)	CB-1 (in)	Kelley Mine (in)
	Cumulative SWE (in)	SWE (in)	Precip (in)						
2021-12-24	1.9	0	0	0	0.02		0.01	0.01	0
2021-12-25	1.9	0	0	0.01	0.01		0	0	0
2021-12-26	2	0.1	0	0.1	0.02		0	0	0
2021-12-27	2.1	0.1	0	0.01	0.02		0.01	0	0.01
2021-12-28	2.1	0	0.2	0	0.02		0	0	0
2021-12-29	2.2	0.1	0	0	0		0.01	0.01	0.01
2021-12-30	2.2	0	0.1	0	0.01		0	0	0
2020-12-31	2.2	0.1	0	0	0		0	0.02	0.02

Table 7b. BPSOU 2021 Climate Station Precipitation - Monthly

Month	Basin Creek (in)	BMMA (in)	BSB Shop (in)	BTL/LAO (in)	CB-1 (in)	Kelley Mine (in)	Blacktail Canyon (in)
January	0.4	0.19	0.22	0.23	0.37	0.23	0.4
February	2.2	0.65	0.48	0.34	0.86	0.42	1.08
March	0.8	0.33	0.32	0.25	0.36	0.34	0.46
April	1.3	0.44		0.45	0.41	0.19	0.9
May	3.8	1.25		1.06	1.28	1.02	1.73
June	0.6	0.36		0.44	0.4	0.36	0.51
July	0	0.43		0.66	0.96	0.84	0.66
August	0.4	1.62		1.24	2.85	2.49	2.09
September	0	0.07			0.12	0.09	0.07
October	1.4	0.52			0.37	0.06	0.86
November	1.1	0.28		0.12	0.4	0.4	0.23
December	1.5	0.34		0.16	0.23	0.19	0.73
Total	**13.5**	**6.48**	**1.02**	**4.95**	**8.61**	**6.63**	**9.72**

Table 7c. BPSOU 2021 Climate Station Precipitation - Snow Water Equivalent

Month	Monthly Accumulated Snow Water Equivalent (in)	Monthly Maximum Accumulated Snow Water Equivalent (in)	Date of Maximum	Total Monthly Snow Water Equivalent Gain (in)	Total Monthly Snow Water Equivalent Loss (in)	Net Monthly Snow Water Equivalent Gain/Loss (in)
January	0.8	0.3	1/30/2021	0.8	0.0	0.8
February	2.3	0.4	2/8/2021	2.3	0.0	2.3
March	0.4	0.1	3/1/2021, 3/9/2021, 3/17/2021, 3/25/2021, 3/26/2021	0.5	-0.1	0.4
April	0.3	0.3	4/23/2021	1.3	-1.0	0.3
May	-6.0	0.3	5/21/2021, 5/24/2021	0.9	-6.9	-6.0
June	0.0	0.0	-	0.0	0.0	0.0
July	0.0	0.0	-	0.0	0.0	0.0
August	0.0	0.0	-	0.0	0.0	0.0
September	0.0	0.0	-	0.0	0.0	0.0
October	0.3	0.6	10/12/2021	0.9	-0.6	0.3
November	0.2	0.1	11/04/2021, 11/05/2021, 11/10/2021, 11/12/2021, 11/13/2021, 11/18/2021, 11/19/2021, 11/20/2021, 11/26/2021, 11/29/2021	1.0	-0.8	0.2
December	1.7	0.3	12/7/2021	1.9	-0.2	1.7
2021 Calendar Year Gain and Loss				**9.60**	**-9.60**	**0.00**

Table 8. BPSOU 2021 Surface Water Monitoring Sampler Stage Heights

Site	Date	Sampler Type	Change	Sampler Stage (ft)	Comment
SS-07	3/23/2021	D-TEC/ISCO	0.00	1.89	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 45 cfs @ SS-07.
SS-06G	3/23/2021	D-TEC/ISCO	0.00	0.7	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 45 cfs @ SS-07.
SS-06A	3/24/2021	D-TEC/ISCO	0.00	0.75	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 45 cfs @ SS-07.
SS-05	3/24/2021	D-TEC/ISCO	0.00	6.37	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 45 cfs @ SS-07.
SS-04	3/24/2021	D-TEC/ISCO	0.00	1.47	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 45 cfs @ SS-07.
SS-01.35	3/24/2021	D-TEC/ISCO	0.00	5.19	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 45 cfs @ SS-07.
SS-01	3/24/2021	D-TEC/ISCO	0.00	1.82	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 45 cfs @ SS-07.
SS-07	4/1//2021	ISCO	-0.02	1.87	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 45 cfs @ SS-07. Checked USGS again must have adjusted 1.89' now Is listed as 50 cfs.
SS-06A	4/1//2021	ISCO	0.05	0.8	Sampled March 29th too low
SS-05	4/1//2021	ISCO	0.20	6.57	USGS working on site - stage different than it was - adjusted criteria up, will check site again
SS-01.35	4/1/2021	ISCO	3.78	5.25	Creek target 25 cfs @ SS-01.35 and 40 cfs @ SS-05 and 45 cfs @ SS-07.
SS-01	4/1/2021	ISCO	0.03	1.85	Sampled March 29th too low
SS-07	4/5/2021	D-TEC/ISCO	0.23	2.1	Creek target 35cfs @ SS-01.35 and 50 cfs @ SS-05 and 60 cfs @ SS-07.
SS-06G	4/5/2021	D-TEC/ISCO	0.18	0.88	Creek target 35cfs @ SS-01.35 and 50 cfs @ SS-05 and 60 cfs @ SS-07.
SS-06A	4/5/2021	D-TEC/ISCO	0.28	1.08	Creek target 35cfs @ SS-01.35 and 50 cfs @ SS-05 and 60 cfs @ SS-07.
SS-05	4/5/2021	D-TEC/ISCO	0.25	6.82	Creek target 35cfs @ SS-01.35 and 50 cfs @ SS-05 and 60 cfs @ SS-07.
SS-04	4/5/2021	D-TEC/ISCO	0.14	1.61	Creek target 35cfs @ SS-01.35 and 50 cfs @ SS-05 and 60 cfs @ SS-07.
SS-01.35	4/5/2021	D-TEC/ISCO	0.22	5.47	Creek target 35cfs @ SS-01.35 and 50 cfs @ SS-05 and 60 cfs @ SS-07.
SS-01	4/5/2021	D-TEC/ISCO	0.36	2.21	Creek target 35cfs @ SS-01.35 and 50 cfs @ SS-05 and 60 cfs @ SS-07.
SS-06G	4/5/2021	D-TEC/ISCO	0.02	0.9	Creek target 35cfs @ SS-01.35 and 50 cfs @ SS-05 and 60 cfs @ SS-07. Sampled too low raised criteria.
SS-07	4/7/2021	D-TEC/ISCO	-0.14	1.96	Creek target 25 cfs @ SS-01.35 and 45 cfs @ SS-05 and 55 cfs @ SS-07.
SS-06G	4/7/2021	D-TEC/ISCO	-0.12	0.76	Creek target 25 cfs @ SS-01.35 and 45 cfs @ SS-05 and 55 cfs @ SS-07.
SS-06A	4/7/2021	D-TEC/ISCO	-0.22	0.86	Creek target 25 cfs @ SS-01.35 and 45 cfs @ SS-05 and 55 cfs @ SS-07.
SS-05	4/7/2021	D-TEC/ISCO	-0.06	6.76	Creek target 25 cfs @ SS-01.35 and 45 cfs @ SS-05 and 55 cfs @ SS-07.
SS-04	4/7/2021	D-TEC/ISCO	-0.19	1.42	Creek target 25 cfs @ SS-01.35 and 45 cfs @ SS-05 and 55 cfs @ SS-07.
SS-01.35	4/7/2021	D-TEC/ISCO	-0.27	5.2	Creek target 25 cfs @ SS-01.35 and 45 cfs @ SS-05 and 55 cfs @ SS-07.
SS-01	4/7/2021	D-TEC/ISCO	-0.37	1.84	Creek target 25 cfs @ SS-01.35 and 45 cfs @ SS-05 and 55 cfs @ SS-07.
SS-07	5/17/2021	ISCO	0.00	1.96	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 55 cfs @ SS-07.
SS-06G	5/17/2021	ISCO	0.09	0.85	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 55 cfs @ SS-07.
SS-06A	5/17/2021	ISCO	0.00	0.86	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 55 cfs @ SS-07.
SS-05	5/17/2021	ISCO	-0.06	6.7	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 55 cfs @ SS-07.
SS-04	5/17/2021	ISCO	-0.10	1.32	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 55 cfs @ SS-07.
SS-01.35	5/17/2021	ISCO	-0.06	5.14	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 55 cfs @ SS-07.
SS-01	5/17/2021	ISCO	-0.35	1.49	Creek target 20 cfs @ SS-01.35 and 40 cfs @ SS-05 and 55 cfs @ SS-07. When team arrived, stage was 1.26', 1.75' seemed to high so we split the difference and set the criteria to 1.49'
SS-07	5/24/2021	ISCO	0.12	2.08	53+15= 68 cfs.
SS-06G	5/24/2021	ISCO	0.00	0.85	Creek target 27 cfs @ SS-01.35 and 49 cfs @ SS-05 and 68 cfs @ SS-07.
SS-06A	5/25/2021	ISCO	0.03	0.89	Creek target 27 cfs @ SS-01.35 and 49 cfs @ SS-05 and 68 cfs @ SS-07.

Table 8. BPSOU 2021 Surface Water Monitoring Sampler Stage Heights

Site	Date	Sampler Type	Change	Sampler Stage (ft)	Comment
SS-05	5/24/2021	ISCO	0.11	6.81	34.4+15 = 49.4 cfs
SS-04	5/24/2021	ISCO	0.22	1.54	Creek target 27 cfs @ SS-01.35 and 49 cfs @ SS-05 and 68 cfs @ SS-07.
SS-01.35	5/24/2021	ISCO	0.18	5.32	19.4 + 7 +(0.04 * 19.4) = 27.17 cfs
SS-01	5/25/2021	ISCO	0.34	1.83	Creek target 27 cfs @ SS-01.35 and 49 cfs @ SS-05 and 68 cfs @ SS-07.
SS-07	6/8/2021	D-TEC/ISCO	-0.13	1.95	31.7+15= 45cfs.
SS-06G	6/8/2021	D-TEC/ISCO	-0.13	0.72	Creek target 18 cfs @ SS-01.35 and 33 cfs @ SS-05 and 45 cfs @ SS-07.
SS-06A	6/8/2021	D-TEC/ISCO	-0.16	0.73	Creek target 18 cfs @ SS-01.35 and 33 cfs @ SS-05 and 45 cfs @ SS-07.
SS-05	6/8/2021	D-TEC/ISCO	-0.21	6.6	25.2+(25.2*0.04)+7=33 cfs.
SS-04	6/8/2021	D-TEC/ISCO	-0.19	1.35	Creek target 18 cfs @ SS-01.35 and 33 cfs @ SS-05 and 45 cfs @ SS-07.
SS-01.35	6/8/2021	D-TEC/ISCO	-0.18	5.14	7.32+(7.32*0.04)+7=18 cfs
SS-01	6/8/2021	D-TEC/ISCO	-0.34	1.49	Creek target 18 cfs @ SS-01.35 and 33 cfs @ SS-05 and 45 cfs @ SS-07.
SS-04	6/10/2021	ISCO	-0.72	1.23	Creek target 14 cfs @ SS-01.35 and 33 cfs @ SS-05 and 45 cfs @ SS-07.
SS-01.35	6/10/2021	ISCO	4.33	5.05	6.90+(6.90*0.04)+7 = 14 cfs
SS-01	6/10/2021	ISCO	0.70	1.43	Creek target 14 cfs @ SS-01.35 and 33 cfs @ SS-05 and 45 cfs @ SS-07.
SS-04	6/10/2021	ISCO	-0.06	1.17	Sampled early 6/10/21 storm, lowered slightly
SS-01.35	7/7/2021	ISCO	-0.15	4.9	5.21+(5.21*0.04)+7=12.4 cfs Sampled hour late 7/1/21 storm, lowered.
SS-07	7/19/2021	D-TEC/ISCO	-0.07	1.88	28.7+(28.7*0.04)+7=36.8 37 cfs
SS-06G	7/19/2021	D-TEC/ISCO	-0.19	0.53	Creek target 12 cfs @ SS-01.35 and 25 cfs @ SS-05 and 37 cfs @ SS-07.
SS-06A	7/19/2021	D-TEC/ISCO	-0.17	0.56	Creek target 12 cfs @ SS-01.35 and 25 cfs @ SS-05 and 37 cfs @ SS-07.
SS-05	7/19/2021	D-TEC/ISCO	-0.12	6.48	16.8+(16.8*0.04)+7=24.47 25 cfs
SS-04	7/19/2021	D-TEC/ISCO	0.00	1.17	Creek target 12 cfs @ SS-01.35 and 25 cfs @ SS-05 and 37 cfs @ SS-07.
SS-01.35	7/19/2021	D-TEC/ISCO	0.00	4.9	5.21+(5.21*0.04)+7=12.4 cfs Sampled hour late 7/1/21 storm, lowered.
SS-01	7/19/2021	D-TEC/ISCO	0.00	1.43	Creek target 12 cfs @ SS-01.35 and 25 cfs @ SS-05 and 37 cfs @ SS-07.
SS-01.35	7/30/2021	D-TEC/ISCO	-0.05	4.85	Didn't collect, lowered.
SS-01	7/30/2021	D-TEC/ISCO	-0.18	1.25	Didn't collect, lowered.
SS-07	8/2/2021	D-TEC/ISCO	0.02	1.9	Sampled 20 min earlier than SS-06G, raised SS-07 slightly May need to lower it was 6G that sampled late not seven early
SS-01.35	8/4/2021	D-TEC/ISCO	0.07	4.92	8.57+(8.57*0.04)+7=15.9 cfs. USGS says this we gaged 6 cfs at the site.
SS-01	8/4/2021	D-TEC/ISCO	0.05	1.3	Stage was at criteria when we were there and sampler had sampled, raised criteria
SS-07	8/20/2021	D-TEC/ISCO	0.12	2.02	Creek target 12 cfs @ SS-01.35 and 25 cfs @ SS-05 and 37 cfs @ SS-07.
SS-06G	8/20/2021	D-TEC/ISCO	0.26	0.79	Creek target 12 cfs @ SS-01.35 and 25 cfs @ SS-05 and 37 cfs @ SS-07.
SS-06A	8/20/2021	D-TEC/ISCO	0.22	0.78	Creek target 12 cfs @ SS-01.35 and 25 cfs @ SS-05 and 37 cfs @ SS-07.
SS-05	8/20/2021	D-TEC/ISCO	0.12	6.6	23.7+(23.7*0.04)+7=32 cfs 32 cfs.
SS-04	8/20/2021	D-TEC/ISCO	0.31	1.48	Creek target 12 cfs @ SS-01.35 and 25 cfs @ SS-05 and 37 cfs @ SS-07.
SS-01.35	8/20/2021	D-TEC/ISCO	0.32	5.24	16+(16*0.04)+7=25 cfs 25 cfs.
SS-01	8/20/2021	D-TEC/ISCO	0.73	1.98	Creek target 12 cfs @ SS-01.35 and 25 cfs @ SS-05 and 37 cfs @ SS-07.
SS-05	10/7/2021	ISCO	0.10	6.7	Will have to check again because SS-05 upstream had more flow than SS-07 downstream on USGS so something is wrong. Changed criteria because sampler sampled 9/30/21.
SS-06A	10/7/2021	ISCO	-0.04	0.74	Will have to check again because SS-05 upstream had more flow than SS-07 downstream on USGS so something is wrong.
SS-06G	10/7/2021	ISCO	0.00	0.79	Will have to check again because SS-05 upstream had more flow than SS-07 downstream on USGS so something is wrong.

Table 9a. BPSOU 2021 Normal Flow Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	Lab Q	Val Q	Status	AlTR (mg/L)	Lab Q	Val Q	Status	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21 09:46	FG	B	0.000077	U		E	0.071			E	0.0029			E	0.00009			E	0.0054			E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21 10:15	FG-N	B	0.000077	U		E	0.081			E	0.0029			E	0.000087			E	0.0063			E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21 10:15	FG-D	B	0.000077	U			0.078				0.0028				0.000055	J			0.0066			
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21 10:45	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21 11:05	FG	B	0.000077	U		E	0.12			E	0.0031			E	0.000099			E	0.012			E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21 11:25	FG	B	0.000077	U		E	0.085			E	0.0027			E	0.000094			E	0.0036			E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21 11:50	FG	B	0.000077	U		E	0.094			E	0.0025			E	0.000053	J		E	0.0031			E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21 12:45	FG	B	0.000077	U		E	0.083			E	0.0022			E	0.000035	J		E	0.0032			E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21 13:36	FG	B	0.000077	U		E	0.16			E	0.0019			E	0.000041	J		E	0.0037			E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21 14:04	FG	B	0.000077	U		E	0.075			E	0.0015			E	0.00003	U		E	0.0018			E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22 09:46	FG	B	0.000077	U		E	0.083			E	0.0026			E	0.00013			E	0.0055			E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22 10:17	FG-N	B	0.000077	U		E	0.13			E	0.003			E	0.00014			E	0.0082			E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22 10:17	FG-D	B	0.000077	U			0.14				0.0031				0.00014				0.0084			
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22 10:45	FB	B	0.000077	U			0.0098	J			0.00014	U			0.00003	U			0.00043	U		
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22 11:11	FG	B	0.000077	U		E	0.1			E	0.0025			E	0.000071	J		E	0.0062			E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22 11:37	FG	B	0.000077	U		E	0.26			E	0.0029			E	0.000086			E	0.0047			E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22 12:30	FG	B	0.000077	U		E	0.095			E	0.0024			E	0.000059	J		E	0.0023			E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22 13:01	FG	B	0.000077	U		E	0.05			E	0.0025			E	0.00003	U		E	0.0024			E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22 13:34	FG	B	0.000077	U		E	0.047			E	0.0023			E	0.00003	U		E	0.0026			E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22 14:38	FG	B	0.000077	U		E	2			E	0.004			E	0.000096			E	0.018			E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16 08:31	FG	B	0.000077	U		E	0.14			E	0.0042			E	0.00009			E	0.0083			E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16 09:10	FG	B	0.000077	U		E	0.15			E	0.0045			E	0.000035	J		E	0.0081			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16 09:46	FG	B	0.000077	U		E	0.14			E	0.0043			E	0.00003	U		E	0.0066			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16 10:17	FG	B	0.000077	U		E	0.17			E	0.0043			E	0.00003	U		E	0.0063			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16 10:53	FG	B	0.000077	U		E	0.19			E	0.0039			E	0.00003	U		E	0.0041			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16 11:27	FG	B	0.000077	U		E	0.2			E	0.0054			E	0.000077	J		E	0.0061			E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16 12:24	FG	B	0.000077	U		E	0.06			E	0.0039			E	0.00003	U		E	0.0037			E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16 13:09	FG-N	B	0.000077	U		E	0.071			E	0.0037			E	0.00003	U		E	0.0038			E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16 13:09	FG-D	B	0.000077	U			0.06				0.0037				0.000045	J			0.0036			
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16 13:34	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13 08:49	FG	B	0.000077	U		E	0.13			E	0.0033			E	0.000095			E	0.0064		J	S
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13 09:33	FG-N	B	0.000077	U		E	0.12			E	0.0032			E	0.0001			E	0.0064		J	S
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13 09:33	FG-D	B	0.000077	U			0.13				0.0035				0.0001				0.0082		J	
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13 09:56	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13 10:34	FG	B	0.000077	U		E	0.16			E	0.0031			E	0.0001			E	0.0073		J	S
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13 11:00	FG	B	0.000077	U		E	0.16			E	0.0028			E	0.000086			E	0.0048		J	S
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13 11:32	FG	B	0.000077	U		E	0.15			E	0.0027			E	0.000064	J		E	0.0036		J	S
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13 12:11	FG	B	0.000077	U		E	0.26			E	0.0036			E	0.000045	J		E	0.0057			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13 12:57	FG	B	0.000077	U		E	0.12			E	0.0026			E	0.00003	U		E	0.0032			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13 13:35	FG	B	0.000077	U		E	0.26			E	0.003			E	0.00003	U		E	0.0045			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19 09:20	FG	B	0.00024	J		E	0.063	B		E	0.0034			E	0.000074	J		E	0.0056			E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19 10:05	FG-N	B	0.000077	U		E	0.064	B		E	0.0039			E	0.0001			E	0.0056			E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19 10:05	FG-D	B	0.00008	J			0.063	B			0.0039				0.00009				0.0059			
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19 10:30	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19 11:00	FG	B	0.000077	U		E	0.058	B		E	0.0037			E	0.000052	J		E	0.0051			E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19 11:21	FG	B	0.000077	U		E	0.055	B		E	0.004			E	0.000088			E	0.0033			E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19 12:00	FG	B	0.000077	U		E	0.053	B		E	0.0038			E	0.000038	J		E	0.0029			E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19 12:20	FG	B	0.000077	U		E	0.038	B		E	0.0039			E	0.00003	U		E	0.0038			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19 12:50	FG	B	0.000077	U		E	0.037	B		E	0.0031			E	0.00003	U		E	0.0038			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19 13:25	FG	B	0.000077	U		E	0.057	B		E	0.0031			E	0.00003	U		E	0.0049			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09 09:47	FG	B	0.00014	J		E	0.038			E	0.003			E	0.000031	J		E	0.0034			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09 10:33	FG-N	B	0.000077	U		E	0.031			E	0.0027			E	0.00003	U		E	0.0044			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09 10:33	FG-D	B	0.000077	U			0.031				0.0029				0.00003	U			0.0044			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09 11:03	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09 12:15	FG	B	0.000077	U		E	0.051			E	0.0033			E	0.000031	J		E	0.0055			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09 12:43	FG	B	0.000077	U		E	0.054			E	0.0043			E	0.000035	J		E	0.0074			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09 13:13	FG	B	0.00018	J		E	0.059			E	0.0034			E	0.000036	J		E	0.0062			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09 13:48	FG	B	0.000077	U		E	0.082			E	0.0034			E	0.000041	J		E	0.0041			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09 14:45	FG	B	0.000077	U		E	0.061			E	0.0032			E	0.00003	U		E	0.0039			E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09 15:15	FG	B	0.000077	U		E	0.039			E	0.0048			E	0.00003	U		E	0.0041			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9a. BPSOU 2021 Normal Flow Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	MoTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21 09:46	FG	B	0.16			E	0.0000045	U		E	0.41			E	0.0019		J+	S	0.034			E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21 10:15	FG-N	B	0.2			E	0.0000045	U		E	0.46			E	0.00077		J+	S	0.024			E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21 10:15	FG-D	B	0.18				0.0000045	U			0.46				0.00075		J+		0.024			
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21 10:45	FB	B	0.012	U			0.0000045	U			0.000081	U			0.0028				0.0023	U		
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21 11:05	FG	B	0.29			E	0.000006	J		E	0.49			E	0.0013		J+	S	0.019			E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21 11:25	FG	B	0.17			E	0.0000045	U		E	0.6			E	0.0006		J+	S	0.011			E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21 11:50	FG	B	0.29			E	0.0000045	U		E	0.26			E	0.00077		J+	S	0.0096			E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21 12:45	FG	B	0.32			E	0.0000045	U		E	0.0063			E	0.00082		J+	S	0.01			E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21 13:36	FG	B	0.41			E	0.0000045	U		E	0.0067			E	0.00097		J+	S	0.011			E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21 14:04	FG	B	0.29			E	0.0000045	U		E	0.0049			E	0.00026		J+	S	0.0031	J		E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22 09:46	FG	B	0.14			E	0.000011			E	0.45			E	0.00085		J	S	0.032			E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22 10:17	FG-N	B	0.24			E	0.000011			E	0.53			E	0.0017		J	S	0.028			E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22 10:17	FG-D	B	0.23				0.000011				0.52				0.0013		J		0.026			
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22 10:45	FB	B	0.012	U			0.000005	J			0.000081	U			0.000065	J			0.0023	U		
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22 11:11	FG	B	0.18			E	0.000008	J		E	0.55			E	0.00081		J	S	0.015			E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22 11:37	FG	B	0.32			E	0.0000045	U		E	0.57			E	0.00083		J	S	0.018			E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22 12:30	FG	B	0.14			E	0.000005	J		E	0.58			E	0.00035		J+	S	0.0063			E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22 13:01	FG	B	0.23			E	0.000006	J		E	0.0064			E	0.0018			E	0.0092			E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22 13:34	FG	B	0.17			E	0.000007	J		E	0.0063			E	0.00041		J+	S	0.0083			E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22 14:38	FG	B	2.3			E	0.00001			E	0.0052			E	0.0051			E	0.061			E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16 08:31	FG	B	0.3			E	0.000007	J		E	0.4			E	0.0013			E	0.037			E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16 09:10	FG	B	0.31			E	0.000005	J		E	0.47			E	0.0011			E	0.026			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16 09:46	FG	B	0.33			E	0.000005	J		E	0.51			E	0.00099			E	0.018			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16 10:17	FG	B	0.38			E	0.000007	J		E	0.51			E	0.0011			E	0.016			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16 10:53	FG	B	0.31			E	0.0000045	U		E	0.51			E	0.00071		J+	S	0.011			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16 11:27	FG	B	0.61			E	0.00001		J	S	0.006			E	0.0014			E	0.022			E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16 12:24	FG	B	0.31			E	0.0000045	U	UJ	S	0.0059			E	0.00041		J+	S	0.0084			E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16 13:09	FG-N	B	0.38			E	0.00013		J	S	0.005			E	0.0003		J+	S	0.0051			E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16 13:09	FG-D	B	0.36				0.0000045	U	UJ		0.0049				0.00028		J+		0.0046	J		
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16 13:34	FB	B	0.012	U			0.0000045	U			0.000081	U			0.000071	J			0.0023	U		
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13 08:49	FG	B	0.34		J+	S	0.0000045	U	UJ	S	0.5			E	0.001		J	S	0.03			E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13 09:33	FG-N	B	0.33		J+	S	0.0000045	U	UJ	S	0.55			E	0.00085		J	S	0.019			E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13 09:33	FG-D	B	0.37		J+		0.000024		J		0.58				0.0011		J		0.02			
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13 09:56	FB	B	0.038	J			0.0000045	U			0.00023	J			0.000052	J			0.0023	U		
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13 10:34	FG	B	0.44			E	0.00003		J	S	0.62			E	0.0012		J	S	0.017			E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13 11:00	FG	B	0.42			E	0.000005	J	J	S	0.57			E	0.0011		J	S	0.012			E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13 11:32	FG	B	0.37		J+	S	0.000013		J	S	0.57			E	0.00071		J	S	0.009			E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13 12:11	FG	B	0.85			E	0.000008	J		E	0.0063			E	0.0016			E	0.016			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13 12:57	FG	B	0.51			E	0.000005	J		E	0.0063			E	0.00061			E	0.0063			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13 13:35	FG	B	0.9			E	0.000014			E	0.0051			E	0.00096			E	0.0056			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19 09:20	FG	B	0.17			E	0.0000047	U		E	0.29			E	0.00071			E	0.034			E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19 10:05	FG-N	B	0.2			E	0.0000047	U		E	0.47			E	0.00055			E	0.016			E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19 10:05	FG-D	B	0.2				0.0000047	U			0.49				0.00057				0.017			
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19 10:30	FB	B	0.012	U			0.0000047	U			0.000081	U			0.000058	J			0.0023	U		
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19 11:00	FG	B	0.2			E	0.0000047	U		E	0.49			E	0.0004			E	0.011			E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19 11:21	FG	B	0.22			E	0.0000047	U		E	0.49			E	0.00038			E	0.008			E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19 12:00	FG	B	0.21			E	0.0000047	U		E	0.46			E	0.00031			E	0.005	J		E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19 12:20	FG	B	0.41			E	0.0000047	U		E	0.0065			E	0.00046			E	0.0065			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19 12:50	FG	B	0.32			E	0.0000047	U		E	0.0064			E	0.00034			E	0.0046	J		E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19 13:25	FG	B	0.42			E	0.0000047	U		E	0.0053			E	0.00036			E	0.0025	J		E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09 09:47	FG	B	0.23			E	0.0000047	U		E	0.0064			E	0.00039		J+	S	0.0059			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09 10:33	FG-N	B	0.24			E	0.0000047	U		E	0.0051			E	0.00018		J+	S	0.0025	J		E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09 10:33	FG-D	B	0.24				0.0000047	U			0.0054				0.00018		J+		0.0023	J		
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09 11:03	FB	B	0.015	J			0.0000047	U			0.000081	U			0.000083	J			0.0023	U		
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09 12:15	FG	B	0.14			E	0.0000047	U		E	0.25			E	0.00054		J+	S	0.031			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09 12:43	FG	B	0.17			E	0.000005	J		E	0.3			E	0.00048		J+	S	0.0099			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09 13:13	FG	B	0.19			E	0.000005	J		E	0.46			E	0.00056		J+	S	0.0075			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09 13:48	FG	B	0.21			E	0.0000047	U		E	0.51			E	0.0006		J+	S	0.0069			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09 14:45	FG	B	0.16			E	0.0000047	U		E	0.53			E	0.00039		J+	S	0.0062			E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09 15:15	FG	B	0.31			E	0.0000047	U		E	0.0069			E	0.00046		J+	S	0.0053			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9a. BPSOU 2021 Normal Flow Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	Lab Q	Val Q	Status	AlTR (mg/L)	Lab Q	Val Q	Status	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08 06:39	FG	B	0.00016	U		E	0.055			E	0.0027			E	0.00007	J		E	0.0043			E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08 07:11	FG-N	B	0.00016	U		E	0.029			E	0.0025			E	0.000057	J		E	0.004			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08 07:11	FG-D	B	0.00016	U			0.026				0.0025				0.000053	J			0.0043			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08 07:35	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08 07:55	FG	B	0.00016	U		E	0.04			E	0.0021			E	0.000048	J		E	0.0036			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08 08:20	FG	B	0.00016	U		E	0.028			E	0.002			E	0.000028	J		E	0.0018			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08 08:42	FG	B	0.00016	U		E	0.027			E	0.0017			E	0.000016	U		E	0.0018			E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08 09:09	FG	B	0.00016	U		E	0.022			E	0.0032			E	0.000019	J		E	0.0031			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08 09:45	FG	B	0.00016	U		E	0.024			E	0.0022			E	0.000018	J		E	0.002			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08 10:25	FG	B	0.00016	U		E	0.047			E	0.002			E	0.000016	U		E	0.0028			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04 08:02	FG	B	0.00016	U		E	0.049			E	0.0027			E	0.000084			E	0.0037		J	S
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04 08:35	FG-N	B	0.00016	U		E	0.047			E	0.0029			E	0.000099			E	0.014		J	S
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04 08:35	FG-D	B	0.00016	U			0.044				0.0029				0.000096				0.004		J	
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04 09:04	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04 09:35	FG	B	0.00016	U		E	0.05			E	0.0028			E	0.000083			E	0.0041		J	S
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04 10:03	FG	B	0.00016	U		E	0.075			E	0.0032			E	0.00003	J		E	0.004		J	S
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04 11:10	FG	B	0.00016	U		E	0.043			E	0.003			E	0.000028	J		E	0.0021		J	S
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04 11:32	FG	B	0.00016	U		E	0.022			E	0.0034			E	0.000019	J		E	0.0028			E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04 12:22	FG	B	0.00016	U		E	0.028			E	0.0023			E	0.000019	J		E	0.0027			E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04 13:14	FG	B	0.00016	U		E	0.014	J		E	0.0023			E	0.000016	U		E	0.0032			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01 09:17	FG	B	0.00019	J		E	0.07			E	0.0033			E	0.000042	J		E	0.0049			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01 10:00	FG-N	B	0.00016	U		E	0.074			E	0.0037			E	0.000027	J		E	0.005			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01 10:00	FG-D	B	0.00016	U			0.073				0.0038				0.000019	J			0.0053			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01 10:35	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01 11:01	FG	B	0.00016	U		E	0.14			E	0.0038			E	0.000016	U		E	0.0067			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01 11:35	FG	B	0.00016	U		E	0.074			E	0.0033			E	0.000016	U		E	0.0027			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01 12:30	FG	B	0.00016	U		E	0.065			E	0.003			E	0.000016	U		E	0.0022			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01 12:47	FG	B	0.00016	U		E	0.043			E	0.0029			E	0.000017	J		E	0.0025			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01 13:15	FG	B	0.00016	U		E	0.021			E	0.0017			E	0.000018	J		E	0.0019			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01 14:10	FG	B	0.00016	U		E	0.021			E	0.0016			E	0.000016	U		E	0.0021			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18 09:56	FG	B	0.00016	U		E	0.051			E	0.0032			E	0.000092			E	0.0046			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18 10:25	FG-N	B	0.00016	U		E	0.048			E	0.004			E	0.00013			E	0.0046			E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18 10:25	FG-D	B	0.00016	U			0.049				0.0043				0.00012				0.0048			
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18 10:55	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18 11:21	FG	B	0.00016	U		E	0.073			E	0.0033			E	0.000088			E	0.0047			E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18 11:48	FG	B	0.00016	U		E	0.065			E	0.0036			E	0.000097			E	0.0027			E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18 12:45	FG	B	0.00016	U		E	0.065			E	0.0029			E	0.000074	J		E	0.0021			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18 13:05	FG	B	0.00016	U		E	0.04			E	0.0025			E	0.000026	J		E	0.0022			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18 13:35	FG	B	0.00016	U		E	0.026			E	0.0017			E	0.000017	J		E	0.0017			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18 14:06	FG	B	0.00016	U		E	0.018	J		E	0.0017			E	0.000016	U		E	0.0015			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01 09:12	FG	B	0.00027	J		E	0.072			E	0.0031			E	0.00011			E	0.0048		J+	S
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01 09:50	FG-N	B	0.00016	U		E	0.082			E	0.0032			E	0.00013			E	0.0047		J+	S
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01 09:50	FG-D	B	0.00016	U			0.087				0.0033				0.00012				0.005		J+	
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01 10:12	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0011			
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01 10:36	FG	B	0.00016	U		E	0.098			E	0.0028			E	0.00011			E	0.0051		J+	S
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01 11:13	FG	B	0.00016	U		E	0.098			E	0.0027			E	0.000093			E	0.0033		J+	S
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01 11:41	FG	B	0.00016	U		E	0.11			E	0.0028			E	0.00009			E	0.0032		J+	S
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01 12:02	FG	B	0.00016	U		E	0.097			E	0.0027			E	0.000053	J		E	0.0033		J+	S
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01 12:32	FG	B	0.00016	U		E	0.022			E	0.0016			E	0.000021	J		E	0.0015		J+	S
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01 13:15	FG	B	0.00016	U		E	0.086			E	0.0017			E	0.000016	J		E	0.0018		J+	S
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08 09:37	FG	B	0.00016	U		E	0.1			E	0.0024			E	0.00008			E	0.0062			E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08 10:07	FG-N	B	0.00016	U		E	0.11			E	0.0025			E	0.000059	J		E	0.0069			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08 10:07	FG-D	B	0.00016	U			0.11				0.0025				0.000053	J			0.0065			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08 10:36	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08 10:46	FG	B	0.00016	U		E	0.11			E	0.0022			E	0.000032	J		E	0.0055			E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08 11:05	FG	B	0.00016	U		E	0.095			E	0.0021			E	0.000023	J		E	0.0035			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08 12:03	FG	B	0.00016	U		E	0.071			E	0.0017			E	0.000016	U		E	0.0023			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08 12:24	FG	B	0.00016	U		E	0.23			E	0.0028			E	0.000063	J		E	0.006			E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08 13:03	FG	B	0.00016	U		E	0.055			E	0.0015			E	0.000022	J		E	0.0025			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08 13:50	FG	B	0.00016	U		E	0.043			E	0.0012			E	0.000016	U		E	0.0018			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9a. BPSOU 2021 Normal Flow Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	MoTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08 06:39	FG	B	0.12			E	0.0000047	U		E	0.28	M1	J-	S	0.00091			E	0.019			E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08 07:11	FG-N	B	0.099			E	0.0000047	U		E	0.26		J-	S	0.00054			E	0.012			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08 07:11	FG-D	B	0.1				0.0000047	U			0.28		J-		0.00057				0.013			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08 07:35	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000031	J			0.002	U		
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08 07:55	FG	B	0.12			E	0.0000047	U		E	0.41		J-	S	0.00067			E	0.01			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08 08:20	FG	B	0.091			E	0.0000047	U		E	0.41		J-	S	0.00045			E	0.0058			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08 08:42	FG	B	0.078			E	0.0000047	U		E	0.41		J-	S	0.00029			E	0.0041	J		E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08 09:09	FG	B	0.23			E	0.0000047	U		E	0.0064			E	0.00037			E	0.0063			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08 09:45	FG	B	0.16			E	0.0000047	U		E	0.007			E	0.00035			E	0.0069			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08 10:25	FG	B	0.24			E	0.0000047	U		E	0.0047			E	0.00028			E	0.0034	J		E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04 08:02	FG	B	0.08			E	0.0000047	U		E	0.32	M1	J-	S	0.00087			E	0.017			E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04 08:35	FG-N	B	0.081			E	0.0000047	U		E	0.39		J-	S	0.00074		J+	S	0.013			E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04 08:35	FG-D	B	0.093				0.0000047	U			0.38		J-		0.00085				0.012			
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04 09:04	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000084	J			0.002	U		
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04 09:35	FG	B	0.09			E	0.0000047	U		E	0.42		J-	S	0.0008		J+	S	0.0089			E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04 10:03	FG	B	0.14			E	0.0000047	U		E	0.38		J-	S	0.0014			E	0.0095			E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04 11:10	FG	B	0.077			E	0.0000047	U		E	0.4		J-	S	0.00055		J+	S	0.0053			E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04 11:32	FG	B	0.18			E	0.0000047	U		E	0.0065			E	0.00031		J+	S	0.0041	J		E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04 12:22	FG	B	0.13			E	0.0000047	U		E	0.0064			E	0.0002		J+	S	0.0051			E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04 13:14	FG	B	0.15			E	0.0000047	U		E	0.0048			E	0.000075	J	UJ	S	0.002	U		E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01 09:17	FG	B	0.1			E	0.0000047	U		E	0.4	P6		E	0.0011			E	0.041			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01 10:00	FG-N	B	0.11			E	0.0000047	U		E	0.5			E	0.001			E	0.017			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01 10:00	FG-D	B	0.11				0.0000047	U			0.49				0.001				0.017			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01 10:35	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000039	J			0.002	U		
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01 11:01	FG	B	0.2			E	0.0000047	U		E	0.49			E	0.002			E	0.015			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01 11:35	FG	B	0.11			E	0.0000047	U		E	0.46			E	0.0009			E	0.008			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01 12:30	FG	B	0.09			E	0.0000047	U		E	0.47			E	0.0005			E	0.0056			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01 12:47	FG	B	0.19			E	0.0000047	U		E	0.007			E	0.00042			E	0.0058			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01 13:15	FG	B	0.086			E	0.0000047	U		E	0.0061			E	0.00013			E	0.0055			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01 14:10	FG	B	0.13			E	0.0000047	U		E	0.0045			E	0.000079	J		E	0.002	U		E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18 09:56	FG	B	0.068			E	0.0000047	U		E	0.31			E	0.00056		J+	S	0.043			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18 10:25	FG-N	B	0.071			E	0.0000047	U		E	0.44			E	0.0005		J+	S	0.018			E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18 10:25	FG-D	B	0.075				0.0000047	U			0.46				0.00051		J+		0.02			
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18 10:55	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000067	J			0.002	U		
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18 11:21	FG	B	0.11			E	0.0000047	U		E	0.47			E	0.00084			E	0.012			E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18 11:48	FG	B	0.11			E	0.0000047	U		E	0.55			E	0.00049		J+	S	0.0094			E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18 12:45	FG	B	0.11			E	0.0000047	U		E	0.46			E	0.00033		J+	S	0.0056			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18 13:05	FG	B	0.18			E	0.0000047	U		E	0.0066			E	0.00048		J+	S	0.0072			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18 13:35	FG	B	0.095			E	0.0000047	U		E	0.0065			E	0.0002		J+	S	0.0052			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18 14:06	FG	B	0.14			E	0.0000047	U		E	0.0052			E	0.00012		J+	S	0.0027	J		E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01 09:12	FG	B	0.11			E	0.0000047	U		E	0.36			E	0.00086			E	0.032			E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01 09:50	FG-N	B	0.12			E	0.0000047	U		E	0.43			E	0.00091			E	0.017			E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01 09:50	FG-D	B	0.12				0.0000047	U			0.44				0.00094				0.018			
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01 10:12	FB	B	0.012	U			0.0000047	U			0.000094	U			0.00008	J			0.002	U		
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01 10:36	FG	B	0.16			E	0.0000047	U		E	0.47			E	0.0013			E	0.013			E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01 11:13	FG	B	0.17			E	0.0000047	U		E	0.47			E	0.00079		J+	S	0.0098			E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01 11:41	FG	B	0.19			E	0.0000047	U		E	0.42			E	0.00085			E	0.0081			E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01 12:02	FG	B	0.31			E	0.0000047	U		E	0.0067			E	0.00086			E	0.011			E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01 12:32	FG	B	0.087			E	0.0000047	U		E	0.0063			E	0.00017		J+	S	0.0064			E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01 13:15	FG	B	0.28			E	0.0000047	U		E	0.0048			E	0.00027		J+	S	0.0031	J		E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08 09:37	FG	B	0.18			E	0.0000047	U		E	0.31	M1	J+	S	0.0014			E	0.036			E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08 10:07	FG-N	B	0.19			E	0.0000047	U		E	0.36		J+	S	0.0014			E	0.022			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08 10:07	FG-D	B	0.19				0.0000047	U			0.36		J+		0.0014				0.022			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08 10:36	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000041	J			0.002	U		
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08 10:46	FG	B	0.2			E	0.0000047	U		E	0.39		J+	S	0.0015			E	0.014	B		E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08 11:05	FG	B	0.19			E	0.0000047	U		E	0.4		J+	S	0.00083			E	0.01	B		E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08 12:03	FG	B	0.14			E	0.0000047	U		E	0.37		J+	S	0.00044			E	0.0057	B		E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08 12:24	FG	B	0.62			E	0.000006	J		E	0.0066			E	0.0017			E	0.017	B		E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08 13:03	FG	B	0.16			E	0.0000047	U		E	0.0061			E	0.00043			E	0.0072	B		E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08 13:50	FG	B	0.19			E	0.0000047	U		E	0.0045			E	0.00016			E	0.0026	J,B		E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9b. BPSOU 2021 Normal Flow Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgDIS (mg/L)	Lab Q	Val Q	Status	AlDIS (mg/L)	Lab Q	Val Q	Status	AsDIS (mg/L)	Lab Q	Val Q	Status	CdDIS (mg/L)	Lab Q	Val Q	Status	CuDIS (mg/L)	Lab Q	Val Q	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21 09:46	FG	B	0.000077	U		E	0.03			E	0.0026			E	0.000092			E	0.0036		J+	S
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21 10:15	FG-N	B	0.000077	U		E	0.021			E	0.0023			E	0.000081			E	0.0024		J+	S
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21 10:15	FG-D	B	0.000077	U			0.028				0.0023				0.000082				0.0035		J+	
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21 10:45	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.0046			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21 11:05	FG	B	0.000077	U		E	0.027			E	0.0021			E	0.000066	J		E	0.003		J+	S
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21 11:25	FG	B	0.000077	U		E	0.032			E	0.0023			E	0.000044	J		E	0.0011		J+	S
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21 11:50	FG	B	0.000077	U		E	0.028			E	0.0018			E	0.00003	U		E	0.0029		J+	S
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21 12:45	FG	B	0.000077	U		E	0.0071	U		E	0.0019			E	0.00003	U		E	0.0009	J	UJ	S
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21 13:36	FG	B	0.000077	U		E	0.017	J		E	0.0015			E	0.00003	U		E	0.0018		J+	S
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21 14:04	FG	B	0.000077	U		E	0.0071	U		E	0.0012			E	0.00003	U		E	0.0008	J	UJ	S
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22 09:46	FG	B	0.000077	U		E	0.0235			E	0.0023			E	0.00014			E	0.0036			E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22 10:17	FG-N	B	0.000077	U		E	0.032			E	0.0022			E	0.00014			E	0.0018			E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22 10:17	FG-D	B	0.000077	U			0.034				0.0023				0.000096				0.0019			
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22 10:45	FB	B	0.000082	J			0.0071	U			0.00014	U			0.00003	U			0.0004	U		
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22 11:11	FG	B	0.000077	U		E	0.041			E	0.0022			E	0.000085			E	0.0019			E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22 11:37	FG	B	0.000077	U		E	0.044			E	0.002			E	0.00011			E	0.001			E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22 12:30	FG	B	0.000077	U		E	0.044			E	0.0019			E	0.00003	U		E	0.0007	J		E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22 13:01	FG	B	0.000077	U		E	0.0071	U		E	0.0021			E	0.00003	U		E	0.0009	J		E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22 13:34	FG	B	0.000077	U		E	0.0071	U		E	0.0017			E	0.00003	U		E	0.001			E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22 14:38	FG	B	0.000077	U		E	0.0071	U		E	0.0021			E	0.000032	J		E	0.0028			E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16 08:31	FG	B	0.000077	U		E	0.025			E	0.0031			E	0.000044	J		E	0.0045			E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16 09:10	FG	B	0.000077	U		E	0.02	J		E	0.0033			E	0.000033	J		E	0.0041			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16 09:46	FG	B	0.000077	U		E	0.022			E	0.0032			E	0.00003	U		E	0.0037			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16 10:17	FG	B	0.000077	U		E	0.028			E	0.0032			E	0.00003	U		E	0.0022			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16 10:53	FG	B	0.000077	U		E	0.027			E	0.0029			E	0.00003	U		E	0.0019			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16 11:27	FG	B	0.000077	U		E	0.0071	U		E	0.0042			E	0.00003	U		E	0.0029			E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16 12:24	FG	B	0.000077	U		E	0.0071	U		E	0.0036			E	0.00003	U		E	0.0032			E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16 13:09	FG-N	B	0.000077	U		E	0.0071	U		E	0.0031			E	0.00003	U		E	0.0027			E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16 13:09	FG-D	B	0.000077	U			0.0071	U			0.0032				0.00003	U			0.0028			
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16 13:34	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.0004	U		
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13 08:49	FG	B	0.000077	U		E	0.025		J+	S	0.0024			E	0.000093			E	0.0025			E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13 09:33	FG-N	B	0.000077	U		E	0.011	J	UJ	S	0.0025			E	0.000094			E	0.0026			E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13 09:33	FG-D	B	0.000077	U			0.012	J	UJ		0.0026				0.000085				0.0027			
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13 09:56	FB	B	0.0001	J			0.018	J			0.00014	U			0.00003	U			0.0004	U		
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13 10:34	FG	B	0.000077	U		E	0.018	J	UJ	S	0.0021			E	0.000087			E	0.0027			E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13 11:00	FG	B	0.000077	U		E	0.013	J	UJ	S	0.0021			E	0.000086			E	0.0024			E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13 11:32	FG	B	0.000077	U		E	0.013	J	UJ	S	0.0019			E	0.000045	J		E	0.0019			E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13 12:11	FG	B	0.000077	U		E	0.0071	U		E	0.0021			E	0.00003	U		E	0.0014			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13 12:57	FG	B	0.000077	U		E	0.0071	U		E	0.0018			E	0.00003	U		E	0.0014			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13 13:35	FG	B	0.000077	U		E	0.0071	U		E	0.0021			E	0.00003	U		E	0.0019			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19 09:20	FG	B	0.000081	J	UJ	S	0.021			E	0.0027			E	0.00008		J+	S	0.0031			E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19 10:05	FG-N	B	0.000077	U		E	0.027			E	0.0029			E	0.00012		J+	S	0.0024			E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19 10:05	FG-D	B	0.000077	U			0.017	J			0.0028				0.000051	J	UJ		0.0025			
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19 10:30	FB	B	0.00069	J,B,D3	UJ		0.0071	U			0.00014	U			0.00005	J			0.0004	U		
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19 11:00	FG	B	0.000077	U		E	0.021			E	0.0029			E	0.000049	J	UJ	S	0.0026			E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19 11:21	FG	B	0.000077	U		E	0.022			E	0.0029			E	0.000037	J	UJ	S	0.0014			E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19 12:00	FG	B	0.000077	U		E	0.021			E	0.0028			E	0.000052	J	UJ	S	0.0012			E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19 12:20	FG	B	0.000077	U		E	0.0071	U		E	0.0029			E	0.00003	U		E	0.0019			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19 12:50	FG	B	0.000077	U		E	0.0075	J		E	0.0024			E	0.00003	U		E	0.002			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19 13:25	FG	B	0.000077	U		E	0.0071	U		E	0.0026			E	0.00003	U		E	0.003			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09 09:47	FG	B	0.000077	U		E	0.0071	U		E	0.0026			E	0.00003	U		E	0.0019			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09 10:33	FG-N	B	0.000077	U		E	0.0071	U		E	0.0024			E	0.00003	U		E	0.0029			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09 10:33	FG-D	B	0.000077	U			0.0071	U			0.0024				0.00003	U			0.0028			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09 11:03	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.0004	U		
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09 12:15	FG	B	0.000077	U		E	0.021			E	0.0028			E	0.00003	U		E	0.0028			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09 12:43	FG	B	0.000077	U		E	0.021			E	0.0038			E	0.00003	U		E	0.0038			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09 13:13	FG	B	0.000077	U		E	0.024			E	0.003			E	0.00003	U		E	0.0034			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09 13:48	FG	B	0.000077	U		E	0.027			E	0.0029			E	0.00003	U		E	0.0017			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09 14:45	FG	B	0.000077	U		E	0.032			E	0.0029			E	0.00003	U		E	0.0018			E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09 15:15	FG	B	0.000077	U		E	0.0074	J		E	0.0043			E	0.00003	U		E	0.0026			E
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08 06:39	FG	B	0.00016	U		E	0.019	J		E	0.0023			E	0.000039	J		E	0.0021			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9b. BPSOU 2021 Normal Flow Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	FeDIS (mg/L)	Lab Q	Val Q	Status	HgDIS (mg/L)	Lab Q	Val Q	Status	MoDIS (mg/L)	Lab Q	Val Q	Status	PbDIS (mg/L)	Lab Q	Val Q	Status	ZnDIS (mg/L)	Lab Q	Val Q	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21 09:46	FG	B	0.012	U		E	0.0000045	U		E	0.45			E	0.00011			E	0.03			E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21 10:15	FG-N	B	0.012	U		E	0.0000045	U		E	0.48			E	0.000043	U		E	0.017			E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21 10:15	FG-D	B	0.012	U			0.0000045	U			0.49				0.000043	U			0.018			
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21 10:45	FB	B	0.012	U			0.0000045	U			0.00011	J			0.000043	U			0.0023	U		
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21 11:05	FG	B	0.028	J		E	0.0000045	U		E	0.48			E	0.000069	J		E	0.013			E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21 11:25	FG	B	0.012	J		E	0.0000045	U		E	0.6			E	0.000043	U		E	0.0081			E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21 11:50	FG	B	0.022	J		E	0.0000045	U		E	0.22			E	0.000043	U		E	0.0055			E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21 12:45	FG	B	0.047	J		E	0.0000045	U		E	0.0066			E	0.000043	U		E	0.0074			E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21 13:36	FG	B	0.028	J		E	0.0000045	U		E	0.0063			E	0.000047	J		E	0.0081			E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21 14:04	FG	B	0.035	J		E	0.0000045	U		E	0.0045			E	0.000043	U		E	0.0023	U		E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22 09:46	FG	B	0.0129	J		E	0.0000045	U		E	0.442			E	0.000056	J		E	0.0275			E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22 10:17	FG-N	B	0.017	J		E	0.000012			E	0.5			E	0.000043	U		E	0.017			E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22 10:17	FG-D	B	0.018	J			0.000005	J			0.57				0.000043	U			0.018			
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22 10:45	FB	B	0.012	U			0.0000045	U			0.00014	J			0.000043	U			0.0023	U		
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22 11:11	FG	B	0.025	J		E	0.000006	J		E	0.59			E	0.000044	J		E	0.013			E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22 11:37	FG	B	0.023	J		E	0.000006	J		E	0.59			E	0.000043	U		E	0.0089			E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22 12:30	FG	B	0.015	J		E	0.000007	J		E	0.55			E	0.000043	U		E	0.0048	J		E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22 13:01	FG	B	0.042	J		E	0.000006	J		E	0.0069			E	0.000043	U		E	0.006			E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22 13:34	FG	B	0.021	J		E	0.000005	J		E	0.0068			E	0.000043	U		E	0.0054			E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22 14:38	FG	B	0.024	J		E	0.0000045	U		E	0.0048			E	0.000043	U		E	0.011			E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16 08:31	FG	B	0.073			E	0.0000045	U		E	0.37			E	0.00018			E	0.03			E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16 09:10	FG	B	0.065			E	0.0000045	U		E	0.45			E	0.000083	J		E	0.018			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16 09:46	FG	B	0.085			E	0.000006	J		E	0.5			E	0.000086	J		E	0.015			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16 10:17	FG	B	0.085			E	0.0000045	U		E	0.53			E	0.000074	J		E	0.011			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16 10:53	FG	B	0.078			E	0.0000045	U		E	0.5			E	0.000066	J		E	0.0077			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16 11:27	FG	B	0.2			E	0.0000045	U		E	0.0058			E	0.00015			E	0.013			E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16 12:24	FG	B	0.15			E	0.0000045	U		E	0.0061			E	0.00011			E	0.0069			E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16 13:09	FG-N	B	0.18			E	0.0000045	U		E	0.0044			E	0.000091	J		E	0.0034	J		E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16 13:09	FG-D	B	0.18				0.000006	J			0.0047				0.000087	J			0.0036	J		
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16 13:34	FB	B	0.012	U			0.0000045	U			0.000081	U			0.000043	U			0.0023	U		
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13 08:49	FG	B	0.024	J		E	0.00001			E	0.48	P6		E	0.000084	J		E	0.022			E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13 09:33	FG-N	B	0.023	J		E	0.0000045	U		E	0.53			E	0.000043	U		E	0.013			E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13 09:33	FG-D	B	0.019	J			0.0000045	U			0.57				0.000043	U			0.014			
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13 09:56	FB	B	0.012	U			0.0000045	U			0.00013	J			0.000043	U			0.0023	U		
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13 10:34	FG	B	0.027	J		E	0.0000045	U		E	0.6			E	0.000043	U		E	0.011			E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13 11:00	FG	B	0.031	J		E	0.0000045	U		E	0.6			E	0.000058	J		E	0.0092			E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13 11:32	FG	B	0.021	J		E	0.0000045	U		E	0.56			E	0.000043	U		E	0.0044	J		E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13 12:11	FG	B	0.091			E	0.0000045	U		E	0.0059			E	0.000052	J		E	0.0066			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13 12:57	FG	B	0.09			E	0.0000045	U		E	0.0059			E	0.000069	J		E	0.0046	J		E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13 13:35	FG	B	0.28			E	0.0000045	U		E	0.0048			E	0.00018			E	0.0023	U		E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19 09:20	FG	B	0.027	J		E	0.0000047	U		E	0.25			E	0.00019		J+	S	0.029			E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19 10:05	FG-N	B	0.02	J		E	0.0000047	U		E	0.52			E	0.000043	U		E	0.012			E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19 10:05	FG-D	B	0.029	J			0.0000047	U			0.49				0.000047	J	UJ		0.012			
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19 10:30	FB	B	0.012	U			0.0000047	U			0.0001	J			0.000076	J			0.0023	U		
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19 11:00	FG	B	0.026	J		E	0.0000047	U		E	0.56			E	0.000043	U		E	0.0087			E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19 11:21	FG	B	0.039	J		E	0.0000047	U		E	0.56			E	0.000043	U		E	0.0059			E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19 12:00	FG	B	0.017	J		E	0.0000047	U		E	0.51			E	0.000043	U		E	0.0037	J		E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19 12:20	FG	B	0.088			E	0.0000047	U		E	0.0059			E	0.000066	J	UJ	S	0.0048	J		E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19 12:50	FG	B	0.071			E	0.0000047	U		E	0.006			E	0.000056	J	UJ	S	0.0026	J		E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19 13:25	FG	B	0.14			E	0.0000047	U		E	0.0052			E	0.000087	J	UJ	S	0.0023	J		E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09 09:47	FG	B	0.052			E	0.0000047	U		E	0.0065			E	0.000057	J		E	0.0043	J		E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09 10:33	FG-N	B	0.068			E	0.0000047	U		E	0.0054			E	0.000052	J		E	0.0023	U		E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09 10:33	FG-D	B	0.07				0.0000047	U			0.0054				0.000056	J			0.0027	J		
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09 11:03	FB	B	0.012	U			0.0000047	U			0.000081	U			0.000043	U			0.0028	J		
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09 12:15	FG	B	0.012	U		E	0.0000047	U		E	0.24			E	0.00013			E	0.026			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09 12:43	FG	B	0.013	J		E	0.0000047	U		E	0.31			E	0.000043	U		E	0.0023	J		E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09 13:13	FG	B	0.036	J		E	0.0000047	U		E	0.47			E	0.00009	J		E	0.0075			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09 13:48	FG	B	0.012	U		E	0.0000047	U		E	0.51			E	0.000043	U		E	0.0034	J		E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09 14:45	FG	B	0.016	J		E	0.0000047	U		E	0.56			E	0.000043	U		E	0.0028	J		E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09 15:15	FG	B	0.07			E	0.0000047	U		E	0.007			E	0.000093	J		E	0.0026	J		E
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08 06:39	FG	B	0.014	J	UJ	S	0.0000047	U		E	0.29			E	0.000069	J		E	0.018			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9b. BPSOU 2021 Normal Flow Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgDIS (mg/L)	Lab Q	Val Q	Status	AlDIS (mg/L)	Lab Q	Val Q	Status	AsDIS (mg/L)	Lab Q	Val Q	Status	CdDIS (mg/L)	Lab Q	Val Q	Status	CuDIS (mg/L)	Lab Q	Val Q	Status
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08 07:11	FG-N	B	0.00016	U		E	0.008	U		E	0.0027			E	0.000038	J		E	0.0024			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08 07:11	FG-D	B	0.00016	U			0.008	U			0.0025				0.000032	J			0.0024			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08 07:35	FB	B	0.00016	U			0.008	U			8.3E-05	U			0.000016	U			0.0005	U		
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08 07:55	FG	B	0.00016	U		E	0.011	J		E	0.0019			E	0.000016	U		E	0.0018			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08 08:20	FG	B	0.00016	U		E	0.016	J		E	0.002			E	0.000016	U		E	0.0011			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08 08:42	FG	B	0.00016	U		E	0.015	J		E	0.0017			E	0.000016	U		E	0.0009	J		E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08 09:09	FG	B	0.00016	U		E	0.008	U		E	0.0033			E	0.00003	J		E	0.0012			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08 09:45	FG	B	0.00016	U		E	0.008	U		E	0.0023			E	0.000016	U		E	0.0012			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08 10:25	FG	B	0.00016	U		E	0.008	U		E	0.002			E	0.000016	U		E	0.0017			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04 08:02	FG	B	0.00016	U		E	0.018	J		E	0.0031			E	0.000063	J		E	0.0023			E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04 08:35	FG-N	B	0.00016	U		E	0.015	J		E	0.003			E	0.00006	J		E	0.0023			E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04 08:35	FG-D	B	0.00016	U			0.016	J			0.0032				0.000066	J			0.0024			
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04 09:04	FB	B	0.00016	U			0.008	U			8.3E-05	U			0.000016	U			0.0005	U		
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04 09:35	FG	B	0.00016	U		E	0.024			E	0.003			E	0.000034	J		E	0.0024			E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04 10:03	FG	B	0.00016	U		E	0.021			E	0.0027			E	0.000028	J		E	0.0012			E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04 11:10	FG	B	0.00016	U		E	0.026			E	0.0028			E	0.000016	U		E	0.0037			E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04 11:32	FG	B	0.00016	U		E	0.008	U		E	0.0031			E	0.000016	U		E	0.0018			E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04 12:22	FG	B	0.00016	U		E	0.008	U		E	0.0021			E	0.000016	U		E	0.0016			E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04 13:14	FG	B	0.00016	U		E	0.008	U		E	0.0021			E	0.000016	U		E	0.002			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01 09:17	FG	B	0.00016	U		E	0.027			E	0.0033			E	0.000026	J		E	0.0023			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01 10:00	FG-N	B	0.00016	U		E	0.026			E	0.0035			E	0.000016	U		E	0.0022			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01 10:00	FG-D	B	0.00016	U			0.025				0.0034				0.000016	U			0.002			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01 10:35	FB	B	0.00016	U			0.008	U			8.3E-05	U			0.000016	U			0.0005	U		
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01 11:01	FG	B	0.00016	U		E	0.032			E	0.0029			E	0.000016	U		E	0.0022			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01 11:35	FG	B	0.00016	U		E	0.036			E	0.0032			E	0.000016	U		E	0.0015			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01 12:30	FG	B	0.00016	U		E	0.035			E	0.0029			E	0.000016	U		E	0.0013			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01 12:47	FG	B	0.00016	U		E	0.008	U		E	0.0026			E	0.000016	U		E	0.0013			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01 13:15	FG	B	0.00016	U		E	0.008	U		E	0.0018			E	0.000016	U		E	0.0013			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01 14:10	FG	B	0.00016	U		E	0.008	U		E	0.0016			E	0.000016	U		E	0.0017			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18 09:56	FG	B	0.00016	U		E	0.029			E	0.0031			E	0.000073	J		E	0.0031			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18 10:25	FG-N	B	0.00016	U		E	0.026			E	0.0043			E	0.00011			E	0.0026			E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18 10:25	FG-D	B	0.00016	U			0.024				0.0043				0.0001				0.0024			
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18 10:55	FB	B	0.00016	U			0.008	U			8.3E-05	U			0.000016	U			0.0005	U		
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18 11:21	FG	B	0.00016	U		E	0.033			E	0.0032			E	0.000088			E	0.0022			E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18 11:48	FG	B	0.00016	U		E	0.034			E	0.0033			E	0.000089			E	0.0013			E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18 12:45	FG	B	0.00016	U		E	0.036			E	0.003			E	0.000072	J		E	0.0013			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18 13:05	FG	B	0.00016	U		E	0.008	U		E	0.0023			E	0.000016	U		E	0.0011			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18 13:35	FG	B	0.00016	U		E	0.008	U		E	0.0017			E	0.000016	U		E	0.0013			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18 14:06	FG	B	0.00016	U		E	0.008	U		E	0.0014			E	0.000061	J		E	0.001	J		E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01 09:12	FG	B	0.00016	U,L1		E	0.027			E	0.0027			E	0.000095	B	J+	S	0.0022			E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01 09:50	FG-N	B	0.00016	U,L1		E	0.035			E	0.0029			E	0.000091	B	J+	S	0.0019			E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01 09:50	FG-D	B	0.00016	U,L1			0.051				0.0029				0.000099	B	J+		0.0019			
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01 10:12	FB	B	0.00016	U,L1			0.008	U			8.3E-05	U			0.000016	J,B	UJ		0.0005	U		
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01 10:36	FG	B	0.00016	U,L1		E	0.04			E	0.0024			E	0.00008	J,B	UJ	S	0.0019			E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01 11:13	FG	B	0.00016	U,L1		E	0.038			E	0.0022			E	0.000083	B	J+	S	0.0011			E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01 11:41	FG	B	0.00016	U,L1		E	0.04			E	0.0021			E	0.000053	J,B	UJ	S	0.0011			E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01 12:02	FG	B	0.00016	U,L1		E	0.008	U		E	0.002			E	0.000016	U		E	0.0008	J		E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01 12:32	FG	B	0.00016	U,L1		E	0.008	U		E	0.0016			E	0.000035	J,B	UJ	S	0.001			E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01 13:15	FG	B	0.00016	U,L1		E	0.008	U		E	0.0014			E	0.000016	U		E	0.001	J		E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08 09:37	FG	B	0.00016	U		E	0.02			E	0.002			E	0.000054	J,B	UJ	S	0.0022			E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08 10:07	FG-N	B	0.00016	U		E	0.023			E	0.0022			E	0.000045	J,B	UJ	S	0.002			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08 10:07	FG-D	B	0.00016	U			0.021				0.0021				0.000056	J,B	UJ		0.0019			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08 10:36	FB	B	0.00016	U			0.008	U			8.3E-05	U			0.000016	U			0.0005	U		
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08 10:46	FG	B	0.00016	U		E	0.029			E	0.0018			E	0.000034	J,B	UJ	S	0.0021			E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08 11:05	FG	B	0.00016	U		E	0.033			E	0.0019			E	0.000016	U		E	0.0013			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08 12:03	FG	B	0.00016	U		E	0.031			E	0.0017			E	0.000016	U		E	0.001			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08 12:24	FG	B	0.00016	U		E	0.008	U		E	0.0021			E	0.000017	J,B	UJ	S	0.001			E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08 13:03	FG	B	0.00016	U		E	0.008	U		E	0.0015			E	0.000019	J,B	UJ	S	0.0011			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08 13:50	FG	B	0.00016	U		E	0.008	U		E	0.0012			E	0.000016	U		E	0.0012			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9b. BPSOU 2021 Normal Flow Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	FeDIS (mg/L)	Lab Q	Val Q	Status	HgDIS (mg/L)	Lab Q	Val Q	Status	MoDIS (mg/L)	Lab Q	Val Q	Status	PbDIS (mg/L)	Lab Q	Val Q	Status	ZnDIS (mg/L)	Lab Q	Val Q	Status
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08 07:11	FG-N	B	0.012	U		E	0.0000047	U		E	0.31			E	0.000028	U		E	0.013			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08 07:11	FG-D	B	0.012	U			0.0000047	U			0.28				0.000028	U			0.012			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08 07:35	FB	B	0.04	J			0.0000047	U			0.000094	U			0.000042	J			0.002	U		
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08 07:55	FG	B	0.013	J	UJ	S	0.0000047	U		E	0.41			E	0.000028	U		E	0.01			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08 08:20	FG	B	0.013	J	UJ	S	0.0000047	U		E	0.45			E	0.000028	U		E	0.0067			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08 08:42	FG	B	0.012	J	UJ	S	0.0000047	U		E	0.44			E	0.000028	U		E	0.0034	J		E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08 09:09	FG	B	0.058		J+	S	0.0000047	U		E	0.0075			E	0.000028	U		E	0.0051			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08 09:45	FG	B	0.039	J	UJ	S	0.0000047	U		E	0.0079			E	0.000028	U		E	0.0068			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08 10:25	FG	B	0.058		J+	S	0.0000047	U		E	0.0049			E	0.000038	J		E	0.0026	J		E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04 08:02	FG	B	0.012	U		E	0.0000047	U		E	0.34			E	0.000078	J		E	0.018			E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04 08:35	FG-N	B	0.012	U		E	0.0000047	U		E	0.37			E	0.000034	J		E	0.011			E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04 08:35	FG-D	B	0.012	U			0.0000047	U			0.39				0.000038	J			0.012			
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04 09:04	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000028	U			0.002	U		
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04 09:35	FG	B	0.012	U		E	0.0000047	U		E	0.43			E	0.000044	J		E	0.0089			E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04 10:03	FG	B	0.012	U		E	0.0000047	U		E	0.39			E	0.000039	J		E	0.0054			E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04 11:10	FG	B	0.012	U		E	0.0000047	U		E	0.44			E	0.00013			E	0.0041	J		E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04 11:32	FG	B	0.043	J		E	0.0000047	U		E	0.0063			E	0.000061	J		E	0.0028	J		E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04 12:22	FG	B	0.028	J		E	0.0000047	U		E	0.0062			E	0.000032	J		E	0.0041	J		E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04 13:14	FG	B	0.046	J		E	0.0000047	U		E	0.0045			E	0.000028	U		E	0.002	U		E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01 09:17	FG	B	0.057			E	0.0000047	U		E	0.43			E	0.00025			E	0.031			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01 10:00	FG-N	B	0.013	J		E	0.0000047	U		E	0.49			E	0.000052	J		E	0.014			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01 10:00	FG-D	B	0.012	U			0.0000047	U			0.49				0.000052	J			0.014			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01 10:35	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000028	U			0.002	U		
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01 11:01	FG	B	0.012	U		E	0.0000047	U		E	0.47			E	0.000063	J		E	0.0073			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01 11:35	FG	B	0.012	U		E	0.0000047	U		E	0.5			E	0.000067	J		E	0.0058			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01 12:30	FG	B	0.012	U		E	0.0000047	U		E	0.48			E	0.000028	U		E	0.0045	J		E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01 12:47	FG	B	0.029	J		E	0.0000047	U		E	0.0071			E	0.000031	J		E	0.0038	J		E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01 13:15	FG	B	0.016	J		E	0.0000047	U		E	0.0067			E	0.000028	U		E	0.0056			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01 14:10	FG	B	0.039	J		E	0.0000047	U		E	0.0048			E	0.000048	J		E	0.002	U		E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18 09:56	FG	B	0.012	U		E	0.0000047	U		E	0.32	M1	J+	S	0.00012			E	0.042			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18 10:25	FG-N	B	0.012	U		E	0.0000047	U		E	0.45		J+	S	0.000028	U		E	0.015			E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18 10:25	FG-D	B	0.012	U			0.0000047	U			0.43		J+		0.000028	U			0.015			
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18 10:55	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000028	U			0.002	U		
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18 11:21	FG	B	0.014	J		E	0.0000047	U		E	0.51		J+	S	0.000028	U		E	0.0099			E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18 11:48	FG	B	0.015	J		E	0.0000047	U		E	0.53		J+	S	0.000028	U		E	0.008			E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18 12:45	FG	B	0.012	U		E	0.0000047	U		E	0.52		J+	S	0.000028	U		E	0.0044	J		E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18 13:05	FG	B	0.046	J		E	0.0000047	U		E	0.0071			E	0.000038	J		E	0.005	J		E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18 13:35	FG	B	0.028	J		E	0.0000047	U		E	0.0069			E	0.000038	J		E	0.0053			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18 14:06	FG	B	0.053			E	0.0000047	U		E	0.0047			E	0.000028	U		E	0.002	U		E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01 09:12	FG	B	0.013	J		E	0.0000047	U		E	0.34			E	0.000092	J,B	J+	S	0.027			E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01 09:50	FG-N	B	0.023	J		E	0.0000047	U		E	0.43			E	0.000041	J,B	J+	S	0.013			E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01 09:50	FG-D	B	0.027	J			0.0000047	U			0.41				0.000048	J,B	J+		0.013			
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01 10:12	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000046	J,B			0.002	U		
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01 10:36	FG	B	0.021	J		E	0.0000047	U		E	0.45			E	0.000047	J,B	J+	S	0.0097			E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01 11:13	FG	B	0.024	J		E	0.0000047	U		E	0.41			E	0.00008	J,B	J+	S	0.0074			E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01 11:41	FG	B	0.019	J		E	0.0000047	U		E	0.43			E	0.000067	J,B	J+	S	0.0043	J		E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01 12:02	FG	B	0.056			E	0.0000047	U		E	0.0062			E	0.000063	J,B	J+	S	0.0063			E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01 12:32	FG	B	0.03	J		E	0.0000047	U		E	0.0067			E	0.000075	J,B	J+	S	0.0064			E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01 13:15	FG	B	0.051			E	0.0000047	U		E	0.0049			E	0.000048	J,B	J+	S	0.0024	J		E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08 09:37	FG	B	0.019	J		E	0.0000047	U		E	0.3			E	0.00017	B	J+	S	0.03			E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08 10:07	FG-N	B	0.012	U		E	0.0000047	U		E	0.36			E	0.000039	J,B	UJ	S	0.015			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08 10:07	FG-D	B	0.012	U			0.0000047	U			0.35				0.000028	U			0.015			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08 10:36	FB	B	0.012	U			0.0000047	U			0.000094	U			0.000036	J			0.002	U		
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08 10:46	FG	B	0.025	J		E	0.0000047	U		E	0.39			E	0.000065	J,B	UJ	S	0.011			E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08 11:05	FG	B	0.021	J		E	0.0000047	U		E	0.4			E	0.000038	J,B	UJ	S	0.0077			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08 12:03	FG	B	0.017	J		E	0.0000047	U		E	0.38			E	0.000035	J,B	UJ	S	0.0039	J		E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08 12:24	FG	B	0.07			E	0.0000047	U		E	0.007			E	0.00006	J,B	UJ	S	0.0067			E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08 13:03	FG	B	0.025	J		E	0.0000047	U		E	0.0066			E	0.00003	J,B	UJ	S	0.0057			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08 13:50	FG	B	0.056			E	0.0000047	U		E	0.0045			E	0.000041	J,B	UJ	S	0.0028	J		E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9c. BPSOU 2021 Normal Flow Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alkalinity (mg $CaCO_3$/L)	Lab Q	Val Q	Status	CaDis (mg/L)	Lab Q	Val Q	Status	DOC (mg/L)	Lab Q	Val Q	Status	Hardness (mg/L)	Lab Q	Val Q	Status	MgDis (mg/L)	Lab Q	Val Q	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21 09:46	FG	B	79.2			E	254			E	2.7		J+	S	687			E	12.9			E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21 10:15	FG-N	B	69.5			E	265			E	1.6		J+	S	712			E	12.5			E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21 10:15	FG-D	B	70.3				272				1.6		J+		732				12.9			
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21 10:45	FB	B	2	U			0.038	J			0.59	J			0.11	J			0.0047	J		
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21 11:05	FG	B	70.6			E	270			E					715			E	9.8			E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21 11:25	FG	B	62			E	328			E					861			E	10.1			E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21 11:50	FG	B	89.7			E	148			E					409			E	9.7			E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21 12:45	FG	B	109			E	42	P6		E					148			E	10.4	P6		E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21 13:36	FG	B	107			E	40.2			E	1.3		J+	S	142			E	10.1			E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21 14:04	FG	B	98.6			E	36			E	1.5		J+	S	128			E	9.2			E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22 09:46	FG	B	74.7		J-	S		P6		E		B	J	S				E				E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22 10:17	FG-N	B	64.6		J-	S	299			E		B	J	S	799			E	12.7			E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22 10:17	FG-D	B	64.8		J-		327					B	J		872				13.3			
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22 10:45	FB	B	2	U	UJ		0.027	J				J,B	UJ		0.091	J			0.0057	J		
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22 11:11	FG	B	62.1		J-	S	331			E					869			E	10.5			E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22 11:37	FG	B	92.6		J-	S	324			E					863			E	13.2			E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22 12:30	FG	B	59.8		J-	S	309			E					814			E	10.1			E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22 13:01	FG	B	107		J-	S	42.2			E					155			E	11.9			E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22 13:34	FG	B	105		J-	S	42.1			E		B	J	S	154			E	12			E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22 14:38	FG	B	93.6		J-	S	36.2			E		B	J	S	236			E	35.4			E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16 08:31	FG	B	78.7			E	238	P6		E	4.8		J+	S	644			E	11.8			E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16 09:10	FG	B	68.8			E	277			E	4.4		J+	S	740			E	11.7			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16 09:46	FG	B	65.8			E	296			E					777			E	9.2			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16 10:17	FG	B	65.7			E	315			E					826			E	9.4			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16 10:53	FG	B	65.7			E	298			E					781			E	8.9			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16 11:27	FG	B	97.3			E	36.8			E					128			E	8.9			E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16 12:24	FG	B	93.3			E	38.4			E	5		J+	S	134			E	9.2			E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16 13:09	FG-N	B	88.1			E	32.4			E	5		J+	S	113			E	7.7			E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16 13:09	FG-D	B	86.9				32.7				4.8		J+		115				8			
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16 13:34	FB	B	2	U			0.015	U			0.94	J,B			0.054	U			0.0039	U		
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13 08:49	FG	B	75.3			E	295	P6		E	3.4			E	782			E	11.1	P6		E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13 09:33	FG-N	B	68.8			E	309			E	2.2			E	818			E	11.3			E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13 09:33	FG-D	B	67.5				322				2.1				854				12.1			
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13 09:56	FB	B	2	U			0.015	U			0.36	J			0.054	U			0.004	J		
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13 10:34	FG	B	65.2			E	345			E					901			E	9.7			E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13 11:00	FG	B	67.7			E	340			E					889			E	9.6			E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13 11:32	FG	B	65.3			E	317			E					828			E	9			E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13 12:11	FG	B	94.8			E	35.7			E					126			E	9			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13 12:57	FG	B	92.8			E	35.7			E	2.4			E	127			E	9.1			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13 13:35	FG	B	77.9			E	30.2			E	3.4			E	107			E	7.6			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19 09:20	FG	B	91.5	M1	J-	S	211	P6		E	2.9	B	J-	S	567			E	9.9			E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19 10:05	FG-N	B	67.4		J-	S	319			E	2.2	B	J-	S	839			E	10.2			E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19 10:05	FG-D	B	67.1		J-		310				2.5	B	J-		817				10			
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19 10:30	FB	B	2	U			0.016	J			0.3	U	UJ		0.062	J			0.005	J		
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19 11:00	FG	B	68		J-	S	340			E					884			E	8.4			E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19 11:21	FG	B	69.2			E	323			E					843			E	8.6			E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19 12:00	FG	B	69.8			E	304			E					793			E	8.4			E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19 12:20	FG	B	102			E	36.8			E					130			E	9.3			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19 12:50	FG	B	97.7			E	36.1			E	2.5	B		E	128			E	9.2			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19 13:25	FG	B	88			E	33.2			E	3.1			E	117			E	8.4			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09 09:47	FG	B	106			E	39.5			E	2.2		J+	S	141			E	10.2			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09 10:33	FG-N	B	93.7			E	34.1			E	2.4		J+	S	122			E	8.8			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09 10:33	FG-D	B	94.8				34.3				2.2		J+		122				8.9			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09 11:03	FB	B	1.8	U			0.033	J			0.51	J			0.11	J			0.0057	J		
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09 12:15	FG	B	84	M1	J-	S	161	P6		E	3		J+	S	445			E	10.3			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09 12:43	FG	B	69.4			E	186			E	2.2		J+	S	513			E	11.9			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09 13:13	FG	B	53.8			E	267			E					696			E	7.4			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09 13:48	FG	B	56.6			E	295			E					766			E	7.5			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09 14:45	FG	B	55			E	308			E					800			E	7.5			E

Table 9c. BPSOU 2021 Normal Flow Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	NH3-N (mg/L)	Lab Q	Val Q	Status	NO_3/NO_2 (mg/L)	Lab Q	Val Q	Status	P (mg/L)	Lab Q	Val Q	Status	SO_4 (mg/L)	Lab Q	Val Q	Status	TDS (mg/L)	Lab Q	Val Q	Status	TKN (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21 09:46	FG	B	0.034	J		E	1.3			E	0.26			E	590			E	1080		J	S	0.48	U		E	5	U		E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21 10:15	FG-N	B	0.074	J		E	1.4			E	0.056	J		E	672			E	385		J	S	0.48	U		E	5	U		E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21 10:15	FG-D	B	0.035	J			1.4				0.048	J			631				1200		J		0.48	U			5	U		
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21 10:45	FB	B	0.025	U			0.078	U			0.028	U			1.2	U			5	U			0.48	U			5	U		
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21 11:05	FG	B					1.2			E					617			E	1130		J	S					5	U		E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21 11:25	FG	B					1.2			E					768			E	1390		J	S					5	U		E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21 11:50	FG	B					1.5			E					278			E	688		J	S					5	U		E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21 12:45	FG	B					1.8			E					35.6	M1	J-	S	231	D6		E					6.6	J		E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21 13:36	FG	B	0.025	U		E	1.8			E	0.12			E	35		J-	S	206			E	0.48	U		E	5	U		E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21 14:04	FG	B	0.025	U		E	1.7			E	0.1			E	33.7		J-	S	202			E	0.48	U		E	5	U		E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22 09:46	FG	B	0.035	J	J-	S	1		J-	S	0.058	J	J-	S	553	M6	J	S					0.48	J,M1,R	UJ	S				
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22 10:17	FG-N	B	0.06	J	J-	S	1.2		J-	S	0.072	J	J-	S	755		J-	S					0.48	U	UJ	S				
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22 10:17	FG-D	B	0.032	J	J-		1.2		J-		0.059	J	J-		792		J-						0.48	U	UJ					
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22 10:45	FB	B	0.025	U	UJ		0.078	U	UJ		0.028	U	UJ		1.2	U	UJ						0.48	U	UJ					
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22 11:11	FG	B					1		J-	S					771		J-	S												
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22 11:37	FG	B					1		J-	S					764		J-	S												
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22 12:30	FG	B					1		J-	S					717		J-	S												
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22 13:01	FG	B					1.6		J-	S					34.3		J-	S												
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22 13:34	FG	B	0.025	U	UJ	S	1.7		J-	S	0.092	J	J-	S	34.9		J-	S					0.48	U	UJ	S				
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22 14:38	FG	B	0.056	J	J-	S	1.1		J-	S	0.18		J-	S	38		J-	S					0.48	U	UJ	S				
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16 08:31	FG	B	0.038	J		E	0.87			E	0.12	M1	J-	S	603	M6		E	970	D6	J	S	0.48	U		E	5	U		E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16 09:10	FG	B	0.043	J		E	0.93			E	0.1		J-	S	550			E	1180		J	S	0.48	U		E	5	U		E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16 09:46	FG	B					0.86			E					711			E	1320		J	S					5	U		E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16 10:17	FG	B					0.89			E					618			E	1250		J	S					5	U		E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16 10:53	FG	B					0.92			E					725			E	1240		J	S					5	U		E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16 11:27	FG	B					0.99			E					33.8			E	218			E					5	U		E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16 12:24	FG	B	0.03	U,M1		E	1.2			E	0.16			E	38.2			E	219			E	0.58			E	5	U		E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16 13:09	FG-N	B	0.03	U		E	1			E	0.15			E	36.5			E	186			E	0.77			E	5	U		E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16 13:09	FG-D	B	0.03	U			1.1				0.14				36.4				186				0.48	U			5	U		
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16 13:34	FB	B	0.03	U			0.078	U			0.028	U			1.2	U			5	U			0.48	U			5	U		
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13 08:49	FG	B	0.084	J		E	0.93			E	0.05	U		E	753			E	1230			E	9.2	M1	J-	S	5	U		E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13 09:33	FG-N	B	0.077	J		E	1.1			E	0.05	U		E	778			E	1400			E	3.5		J-	S	5	U		E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13 09:33	FG-D	B	0.033	J			1.1				0.05	U			762				1440				0.48	U	UJ		5	U		
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13 09:56	FB	B	0.03	U			0.078	U			0.05	U			1.2	J			11				0.48	U			5	U		
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13 10:34	FG	B					0.9			E					811			E	1480			E					7.5	J		E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13 11:00	FG	B					0.89			E					817			E	1320			E					5	U		E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13 11:32	FG	B					0.94			E					820			E	1320			E					5	U		E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13 12:11	FG	B					1.1			E					36.2			E	207			E					9	J		E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13 12:57	FG	B	0.03	U		E	1.4			E	0.05	U		E	32.4			E	213			E	0.48	U		E	5	U		E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13 13:35	FG	B	0.03	U		E	0.84			E	0.05	U		E	27.7			E	181			E	1.3			E	6.2	J		E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19 09:20	FG	B	0.03	U,M1	UJ	S	0.82	B	J-	S	0.11		J-	S	536	M1	J	S	854		J-	S	1.3		J-	S	5	U	UJ	S
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19 10:05	FG-N	B	0.03	U	UJ	S	0.9		J-	S	0.05	U	UJ	S	987		J	S	1280		J-	S	0.7		J-	S	5	U	UJ	S
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19 10:05	FG-D	B	0.03	U	UJ		0.99		J-		0.05	U	UJ		964		J		1260		J-		1		J-		5	J	J-	
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19 10:30	FB	B	0.03	U	UJ		0.078	U	UJ		0.05	U	UJ		1.2	U	UJ		8	J	J-		0.48	U	UJ		5	U	UJ	
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19 11:00	FG	B					0.84	B	J-	S					991		J	S	1220		J-	S					5	U	UJ	S
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19 11:21	FG	B					0.8	B		E					958		J+	S	1260			E					5	U		E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19 12:00	FG	B					0.89			E					841		J+	S	1220			E					5	U		E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19 12:20	FG	B					0.94			E					42.1			E	199			E					5	U		E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19 12:50	FG	B	0.03	U		E	1			E	0.05	U		E	40			E	201			E	0.56			E	5	U		E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19 13:25	FG	B	0.03	U		E	0.79	B		E	0.063	J		E	37.2			E	178			E	0.48	J		E	5	U		E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09 09:47	FG	B	0.04	J		E	1.4			E	0.1			E	32			E	212		J	S	0.48	U		E	5	U		E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09 10:33	FG-N	B	0.03	U		E	1.1			E	0.084	J		E	29.8			E	192		J	S	0.48	U		E	5	U		E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09 10:33	FG-D	B	0.03	U			1.1				0.067	J			31				92		J		0.48	U			5	U		
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09 11:03	FB	B	0.03	U			0.079	J			0.05	U			1.2	U			5	U			0.48	U			5	U		
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09 12:15	FG	B	0.03	U		E	0.75			E	0.05	U		E	398	M1	J-	S	754		J	S	0.48	U		E	5	U		E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09 12:43	FG	B	0.03	U		E	1			E	0.063	J		E	476		J-	S	874		J	S	0.48	U		E	5	U		E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09 13:13	FG	B					0.8			E					795		J-	S	1100		J	S					5	U		E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09 13:48	FG	B					0.87			E					741		J-	S	1220		J	S					5	U		E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09 14:45	FG	B					0.87			E					750		J-	S	1300		J	S					5	U		E

Table 9c. BPSOU 2021 Normal Flow Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alkalinity (mg $CaCO_3$/L)	Lab Q	Val Q	Status	CaDis (mg/L)	Lab Q	Val Q	Status	DOC (mg/L)	Lab Q	Val Q	Status	Hardness (mg/L)	Lab Q	Val Q	Status	MgDis (mg/L)	Lab Q	Val Q	Status
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09 15:15	FG	B	107			E	36.8			E					131			E	9.4			E
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08 06:39	FG	B	62.5			E	191	P6		E	2.1		J+	S	514			E	9			E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08 07:11	FG-N	B	58.9			E	210			E	1.6		J+	S	565			E	10			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08 07:11	FG-D	B	58.7				189				1.5		J+		508				9.1			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08 07:35	FB	B	2.7	J			0.025	J			0.49	J			0.079	J			0.0043	J		
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08 07:55	FG	B	49.2			E	240			E					620			E	5.1			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08 08:20	FG	B	48.5			E	270			E					696			E	5.3			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08 08:42	FG	B	46.4			E	261			E					671			E	5			E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08 09:09	FG	B	116			E	45.7			E					161			E	11.3			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08 09:45	FG	B	117			E	46.3			E	1.7		J+	S	165			E	12.1			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08 10:25	FG	B	108			E	40.5			E	1.7		J+	S	143			E	10.1			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04 08:02	FG	B	66.9			E	228	P6		E	2.2		J+	S	606			E	9.2			E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04 08:35	FG-N	B	58.3			E	250			E	1.7		J+	S	659			E	8.7			E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04 08:35	FG-D	B	57.8				253				1.8		J+		669				9.3			
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04 09:04	FB	B	1.8	U			0.019	J			0.53	J			0.06	U			0.0034	U		
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04 09:35	FG	B	56.2			E	274			E					709			E	5.9			E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04 10:03	FG	B	55.4			E	245			E					633			E	5.3			E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04 11:10	FG	B	54.8			E	271			E					701			E	5.8			E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04 11:32	FG	B	113			E	40.7			E					144			E	10.3			E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04 12:22	FG	B	111			E	41.2			E	1.8		J+	S	145			E	10.3			E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04 13:14	FG	B	104			E	37.2			E	1.9		J+	S	132			E	9.5			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01 09:17	FG	B	75.2			E	198	P6		E	2.2		J+	S	534			E	9.3	P6		E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01 10:00	FG-N	B	56.7			E	281			E	1.7		J+	S	738			E	8.8			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01 10:00	FG-D	B	56.5				252				1.6		J+		665				8.7			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01 10:35	FB	B	1.8	U			0.029	J			0.67	J			0.093	J			0.0051	J		
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01 11:01	FG	B	54.1			E	271			E					700			E	5.4			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01 11:35	FG	B	56.8			E	270			E					700			E	6.2			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01 12:30	FG	B	56.1			E	292			E					755			E	6			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01 12:47	FG	B	120			E	41.1			E					149			E	11.4			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01 13:15	FG	B	117			E	43.3			E	1.9		J+	S	153			E	10.9			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01 14:10	FG	B	102			E	37.1			E	1.7		J+	S	131			E	9.4			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18 09:56	FG	B	101			E	216	P6,M1		E	2.9		J+	S	582			E	10.6			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18 10:25	FG-N	B	81.4			E	290			E	1.5		J+	S	773			E	11.7			E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18 10:25	FG-D	B	82				290				1.3		J+		770				11.1			
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18 10:55	FB	B	1.8	U			0.018	U			4.4				0.06	U			0.0039	J		
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18 11:21	FG	B	81.9			E	313			E					813			E	7.3			E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18 11:48	FG	B	80			E	328			E					851			E	7.5			E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18 12:45	FG	B	78.9			E	320			E					827			E	7.1			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18 13:05	FG	B	108			E	39.4			E					139			E	9.8			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18 13:35	FG	B	105			E	38.4			E	1.6		J+	S	135			E	9.5			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18 14:06	FG	B	95.7			E	30.6			E	2		J+	S	108			E	7.6			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01 09:12	FG	B	79.2			E	227	P6		E	2.1		J+	S	604			E	9			E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01 09:50	FG-N	B	65.3			E	263			E	1.5		J+	S	695			E	8.9			E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01 09:50	FG-D	B	65.5				253				1.4		J+		668				8.8			
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01 10:12	FB	B	1.8	U			0.018	U			0.64	J			0.064	J			0.0053	J		
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01 10:36	FG	B	63.9			E	291			E					752			E	6.4			E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01 11:13	FG	B	62.9			E	276			E					714			E	6.1			E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01 11:41	FG	B	362		R	R	272			E					702			E	5.7			E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01 12:02	FG	B	108			E	38.6			E					134			E	9.2			E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01 12:32	FG	B	108			E	43.9			E	1.6		J+	S	151			E	10			E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01 13:15	FG	B	99.2			E	37.7			E	1.6		J+	S	132			E	9.1			E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08 09:37	FG	B	75.6			E	208	P6		E	1.8			E	561			E	10.4			E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08 10:07	FG-N	B	65			E	254			E	1.5			E	676			E	10.1			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08 10:07	FG-D	B	64.7				251				1.3				667				9.7			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08 10:36	FB	B	1.8	U			0.018	U			0.3	U			0.06	U			0.0034	U		
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08 10:46	FG	B	61.8			E	269			E					700			E	6.9			E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08 11:05	FG	B	62.1			E	276			E					719			E	7			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08 12:03	FG	B	61.2			E	264			E					688			E	6.7			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08 12:24	FG	B	107			E	43.9			E					157			E	11.6			E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08 13:03	FG	B	104			E	43.7			E	1.4			E	156			E	11.3			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08 13:50	FG	B	94			E	35.6			E	1.8			E	127			E	9.3			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9c. BPSOU 2021 Normal Flow Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	NH3-N (mg/L)	Lab Q	Val Q	Status	NO_3/NO_2 (mg/L)	Lab Q	Val Q	Status	P (mg/L)	Lab Q	Val Q	Status	SO_4 (mg/L)	Lab Q	Val Q	Status	TDS (mg/L)	Lab Q	Val Q	Status	TKN (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09 15:15	FG	B					1.1			E					34.1			E	127		J	S					5	U		E
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08 06:39	FG	B	0.034	J		E	0.91			E	0.061	J		E	473	M1		E	834			E	0.48	U		E	5	U		E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08 07:11	FG-N	B	0.03	U		E	1.1			E	0.063	J		E	491			E	822			E	0.48	U		E	5	U		E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08 07:11	FG-D	B	0.035	J			1.1				0.05	U			446				834				0.48	U			5	U		
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08 07:35	FB	B	0.03	U			0.078	J			0.05	U			1.2	U			5	U			0.48	U			5	U		
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08 07:55	FG	B					1.2			E					598			E	1000			E					5	U		E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08 08:20	FG	B					0.87			E					569			E	1000			E					5	U		E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08 08:42	FG	B					0.89			E					617			E	985			E					5	U		E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08 09:09	FG	B					1.5			E					34.3			E	227			E					5	U		E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08 09:45	FG	B	0.036	J		E	1.7			E	0.11			E	33.8			E	232			E	0.48	U		E	5	U		E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08 10:25	FG	B	0.03	U		E	1.5			E	0.082	J		E	31.2			E	192			E	0.48	U		E	5	U		E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04 08:02	FG	B	0.03	U		E	0.8			E	0.05	U		E	576			E	995		J	S	1.2		J-	S	5	U	UJ	S
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04 08:35	FG-N	B	0.03	U		E	0.87			E	0.05	U		E	579			E	808		J	S	0.48	U	UJ	S	5	U	UJ	S
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04 08:35	FG-D	B	0.03	U			0.88				0.05	U			578				1070		J		0.48	U	UJ		24.6		J	
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04 09:04	FB	B	0.03	U			0.078	U			0.05	U			1.2	U			7	J			0.48	U,M1	UJ		5	U		
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04 09:35	FG	B					0.77			E					646			E	1110		J	S					5	U	UJ	S
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04 10:03	FG	B					0.78			E					677			E	687		J	S					5	U	UJ	S
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04 11:10	FG	B					0.79			E					632			E	1120		J	S					5	U	UJ	S
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04 11:32	FG	B					1.1			E					37.8			E	240		J	S					5	U	UJ	S
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04 12:22	FG	B	0.03	U		E	1.3			E	0.1			E	36.7			E	236		J	S	0.48	U	UJ	S	5	U	UJ	S
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04 13:14	FG	B	0.03	U		E	1.2			E	0.083	J		E	33			E	217		J	S	0.48	U	UJ	S	5	U	UJ	S
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01 09:17	FG	B	0.03	U		E	0.85			E	0.054	J		E	690	H1	R	R	1180			E	0.48	J,R1,M	UJ	S	5	U		E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01 10:00	FG-N	B	0.03	U		E	1.1			E	0.05	U		E	911			E	1310			E	0.48	U	UJ	S	5.2	J		E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01 10:00	FG-D	B	0.03	U			1.1				0.05	U			986				1320				0.48	U	UJ		5	U		
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01 10:35	FB	B	0.03	U			0.084	J			0.05	U			1.2	U			5	U			0.48	U			5	U		
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01 11:01	FG	B					0.89			E					853			E	1240			E					5	U		E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01 11:35	FG	B					0.99			E					741			E	1180			E					5	U		E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01 12:30	FG	B					0.97			E					831	M1		E	1220			E					5	U		E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01 12:47	FG	B					1.5			E					39.5			E	249			E					5	U		E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01 13:15	FG	B	0.03	U		E	1.6			E	0.094	J		E	38.8			E	251			E	0.48	U		E	5	U		E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01 14:10	FG	B	0.03	U		E	1.3			E	0.075	J		E	35.8			E	211			E	0.48	U		E	5	U		E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18 09:56	FG	B	0.03	U,M1		E	0.9	B		E	0.05	U		E	580			E	1030			E	0.55			E	5	U		E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18 10:25	FG-N	B	0.03	U		E	1.2			E	0.05	U		E	793			E	1340			E	0.48	U		E	5	U		E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18 10:25	FG-D	B	0.03	U			1.3				0.05	U			810				1340				0.65				5	U		
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18 10:55	FB	B	0.03	U			0.11	J,B			0.05	U			1.2	U			5	U			0.48	U			5	U		
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18 11:21	FG	B					1			E					839			E	1420			E					5	U		E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18 11:48	FG	B					1			E					882			E	1430			E					5	U		E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18 12:45	FG	B					1			E					869			E	1450			E					5	U		E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18 13:05	FG	B					1.2			E					35			E	215			E					5	U		E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18 13:35	FG	B	0.03	U		E	1.3			E	0.05	U		E	35.9			E	222			E	0.48	U		E	5	U		E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18 14:06	FG	B	0.03	U		E	1.1			E	0.05	U		E	33.6			E	195			E	0.48	U		E	5	U		E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01 09:12	FG	B	0.03	U,B		E	0.97	M1	J-	S	0.068	J,R1	J	S	558	P6		E	1030			E	0.48	U		E	5	U		E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01 09:50	FG-N	B	0.03	U		E	1.2		J-	S	0.2		J	S	726	P6		E	1190			E	0.48	U		E	5	U		E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01 09:50	FG-D	B	0.036	J,B			1.3		J-		0.05	U	UJ		662				1180				0.48	U			5	U		
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01 10:12	FB	B	0.03	U			0.078	U			0.05	U			1.2	J			5	U			0.48	U			5	U		
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01 10:36	FG	B					0.97		J-	S					688			E	1210			E					5	U		E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01 11:13	FG	B					0.94		J-	S					667			E	1210			E					5	U		E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01 11:41	FG	B					1		J-	S					690			E	1180			E					5	U		E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01 12:02	FG	B					1.5			E					35.5			E	216			E					5	J		E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01 12:32	FG	B	0.03	U		E	1.7			E	0.084	J		E	35			E	209			E	0.48	U		E	5	U		E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01 13:15	FG	B	0.038	J,B		E	1.5			E	0.079	J		E	32.2			E	205			E	0.48	U		E	5.3	J		E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08 09:37	FG	B	0.03	U		E	1	M1	J-	S	0.05	U		E	574	M1		E	964			E	0.5			E	5	U		E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08 10:07	FG-N	B	0.03	U		E	1.2		J-	S	0.05	U		E	609			E	1090			E	0.48	U		E	5	U		E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08 10:07	FG-D	B	0.03	U			1.2		J-		0.05	U			597				1070				0.48	U			5	U		
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08 10:36	FB	B	0.03	U			0.078	U			0.05	U			2.2	J			5	U			0.48	U			5	U		
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08 10:46	FG	B					0.97		J-	S					628			E	1080			E					5	U		E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08 11:05	FG	B					1.1		J-	S					672			E	1090			E					5	U		E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08 12:03	FG	B					1		J-	S					674			E	1080			E					5	U		E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08 12:24	FG	B					1.5			E					38.9			E	217			E					10.4			E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08 13:03	FG	B	0.03	U		E	1.6			E	0.086	J		E	38.3			E	217			E	0.48	U		E	5	U		E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08 13:50	FG	B	0.03	U		E	1.3			E	1			E	35.2			E	190			E	0.48	U		E	5	U		E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 9d. BPSOU 2021 Normal Flow Results - Field

SDG	Location	Field Sample ID	Sample Date	Sample Type	Cond (µS/CM)	DO (mg/L)	pH (SU)	Temp (°C)	Stage (FT)	Flow (CFS)
10545858	SS-07	SWBF0001-012121	2021-01-21	FG	1146	10.68	7.60	5.6	1.64	23.0
10545858	SS-06G	SWBF0002-012121	2021-01-21	FG-N	1501	12.5	8.00	2.2	0.46	20.9
10545858	SS-06G	SWBF0003-012121	2021-01-21	FG-D	1501	12.5	8.00	2.2	0.46	20.9
10545858	SS-06A	SWBF0005-012121	2021-01-21	FG	1411	12.85	7.75	2.6	0.47	18.7
10545858	SS-05A	SWBF0006-012121	2021-01-21	FG	1642	13.42	7.69	2.7	0.72	21.6
10545858	SS-05	SWBF0007-012121	2021-01-21	FG	942	12.24	7.77	3.2	0.85	20.6
10545858	SS-04	SWBF0008-012121	2021-01-21	FG	337.8	11.57	7.86	4.1	1	10.9
10545858	SS-01.35	SWBF0009-012121	2021-01-21	FG	339	11.76	7.85	5.1	4.22	9.4
10545858	SS-01	SWBF0010-012121	2021-01-21	FG	300.8	11.41	7.71	4.2	1.11	4.2
10550036	SS-07	SWBF0011-022221	2021-02-22	FG	1401	13.4	8.00	4.5	1.67	25.1
10550036	SS-06G	SWBF0012-022221	2021-02-22	FG-N	1609	14.44	8.06	3.2	0.47	23.8
10550036	SS-06G	SWBF0013-022221	2021-02-22	FG-D	1609	14.44	8.06	3.2	0.47	23.8
10550036	SS-06A	SWBF0015-022221	2021-02-22	FG	1653	15.05	7.77	4.1	0.49	20.7
10550036	SS-05A	SWBF0016-022221	2021-02-22	FG	1682	15.22	7.70	4.1	0.73	21.5
10550036	SS-05	SWBF0017-022221	2021-02-22	FG	1672	15.4	7.70	4.4	0.85	23.4
10550036	SS-04	SWBF0018-022221	2021-02-22	FG	389.2	12.78	7.94	6.5	0.99	10.5
10550036	SS-01.35	SWBF0019-022221	2021-02-22	FG	371.9	13.98	7.96	6.7	4.9	8.8
10550036	SS-01	SWBF0020-022221	2021-02-22	FG	676.4	13.18	7.93	5.2	1.14	6.5
10551370	SS-07	SWBF0021-031621	2021-03-16	FG	1483	12.82	7.54	2.5	1.75	32.2
10551370	SS-06G	SWBF0022-031621	2021-03-16	FG	1535	13.41	7.67	2.4	0.57	29.0
10551370	SS-06A	SWBF0023-031621	2021-03-16	FG	1577	14.54	7.48	2.6	0.64	25.4
10551370	SS-05A	SWBF0024-031621	2021-03-16	FG	1593	13.92	7.44	2.8	0.88	27.4
10551370	SS-05	SWBF0025-031621	2021-03-16	FG	1578	13.96	7.45	3.2	0.99	28.0
10551370	SS-04	SWBF0026-031621	2021-03-16	FG	333.2	12.11	7.55	4.3	1.14	11.1
10551370	SS-01.35	SWBF0027-031621	2021-03-16	FG	329.4	13.01	7.57	6	4.96	10.1
10551370	SS-01	SWBF0028-031621	2021-03-16	FG-N	292.1	12.46	7.60	5.2	1.38	7.0
10551370	SS-01	SWBF0029-031621	2021-03-16	FG-D	292.1	12.46	7.60	5.2	1.38	7.0
10555588	SS-07	SWBF0031-041321	2021-04-13	FG	1529	12.12	7.77	3.1	1.74	33.6
10555588	SS-06G	SWBF0032-041321	2021-04-13	FG-N	1670	13.27	8.16	2.2	0.55	28.7
10555588	SS-06G	SWBF0033-041321	2021-04-13	FG-D	1670	13.27	8.16	2.2	0.55	28.7
10555588	SS-06A	SWBF0035-041321	2021-04-13	FG	1701	13.88	7.94	2.6	0.6	25.5
10555588	SS-05A	SWBF0036-041321	2021-04-13	FG	1694	13.87	7.81	2.9	0.86	24.5
10555588	SS-05	SWBF0037-041321	2021-04-13	FG	1595	13.65	7.79	3.2	0.98	27.6
10555588	SS-04	SWBF0038-041321	2021-04-13	FG	325.3	11.79	7.94	3.6	1.12	10.4
10555588	SS-01.35	SWBF0039-041321	2021-04-13	FG	313.2	11.54	7.85	4.4	5	12.6
10555588	SS-01	SWBF0040-041321	2021-04-13	FG	266.9	11.07	7.82	3.3	1.49	9.2
10561813	SS-07	SWBF0041-051921	2021-05-19	FG	940	8.56	7.48	10.4	1.76	25.6
10561813	SS-06G	SWBF0042-051921	2021-05-19	FG-N	1627	11.58	7.94	8.9	0.53	22.7
10561813	SS-06G	SWBF0043-051921	2021-05-19	FG-D	1627	11.58	7.94	8.9	0.53	22.7
10561813	SS-06A	SWBF0045-051921	2021-05-19	FG	1608	12.32	7.92	9	0.54	20.8
10561813	SS-05A	SWBF0046-051921	2021-05-19	FG	1565	12.63	7.92	9.2	0.72	18.0
10561813	SS-05	SWBF0047-051921	2021-05-19	FG	1554	12.6	8.00	9.7	0.86	22.0
10561813	SS-04	SWBF0048-051921	2021-05-19	FG	320.8	11.29	8.24	11.4	1.02	8.8
10561813	SS-01.35	SWBF0049-051921	2021-05-19	FG	312.4	11.17	8.04	11.3	4.94	10.6
10561813	SS-01	SWBF0050-051921	2021-05-19	FG	272.2	10.64	8.08	10.8	1.24	6.5
10564925	SS-01.35	SWBF0055-060921	2021-06-09	FG	334.1	9.64	7.72	10.6	4.88	8.1
10564925	SS-01	SWBF0056-060921	2021-06-09	FG-N	283.6	9.43	7.80	10.8	1.11	5.1
10564925	SS-01	SWBF0057-060921	2021-06-09	FG-D	283.6	9.43	7.80	10.8	1.11	5.1
10564925	SS-07	SWBF0059-060921	2021-06-09	FG	673	8.6	7.40	14.6	1.7	24.1
10564925	SS-06G	SWBF0060-060921	2021-06-09	FG	1082	14.23	9.17	15.9	0.55	27.1

Table 9d. BPSOU 2021 Normal Flow Results - Field

SDG	Location	Field Sample ID	Sample Date	Sample Type	Cond (µS/CM)	DO (mg/L)	pH (SU)	Temp (°C)	Stage (FT)	Flow (CFS)
10564925	SS-06A	SWBF0061-060921	2021-06-09	FG	1463	14.11	8.91	15.3	0.56	21.1
10564925	SS-05A	SWBF0062-060921	2021-06-09	FG	1430	12.09	8.63	15.2	0.78	24.5
10564925	SS-05	SWBF0063-060921	2021-06-09	FG	1485	10.89	8.23	15.3	0.9	24.9
10564925	SS-04	SWBF0064-060921	2021-06-09	FG	333.5	11.54	8.60	18.2	1.06	9.3
10569157	SS-07	SWBF0081-070821	2021-07-08	FG	985	7.42	7.52	15.7	1.68	20.5
10569157	SS-06G	SWBF0082-070821	2021-07-08	FG-N	1123	7.68	7.78	15.1	0.39	16.9
10569157	SS-06G	SWBF0083-070821	2021-07-08	FG-D	1123	7.68	7.78	15.1	0.39	16.9
10569157	SS-06A	SWBF0085-070821	2021-07-08	FG	1313	8.55	7.68	15.3	0.4	17.8
10569157	SS-05A	SWBF0086-070821	2021-07-08	FG	1310	9.52	7.83	15.6	0.62	17.2
10569157	SS-05	SWBF0087-070821	2021-07-08	FG	1312	9.88	7.91	15.6	0.76	18.9
10569157	SS-04	SWBF0088-070821	2021-07-08	FG	369.5	9.35	8.08	11.6	0.92	3.8
10569157	SS-01.35	SWBF0089-070821	2021-07-08	FG	370.4	7.74	7.66	11.8	4.72	5.6
10569157	SS-01	SWBF0090-070821	2021-07-08	FG	303.8	8.61	7.73	11.3	1.04	3.4
10573218	SS-07	SWBF0107-080421	2021-08-04	FG	1201	7.42	7.58	16.6	1.78	26.7
10573218	SS-06G	SWBF0108-080421	2021-08-04	FG-N	1324	7.65	7.81	16.2	0.45	23.5
10573218	SS-06G	SWBF0109-080421	2021-08-04	FG-D	1324	7.65	7.81	16.2	0.45	23.5
10573218	SS-06A	SWBF0111-080421	2021-08-04	FG	1358	9	7.91	16.3	0.44	19.0
10573218	SS-05A	SWBF0112-080421	2021-08-04	FG	1359	9.59	8.00	16.6	0.69	17.1
10573218	SS-05	SWBF0113-080421	2021-08-04	FG	1321	10.23	8.11	16.9	0.79	19.8
10573218	SS-04	SWBF0114-080421	2021-08-04	FG	355.2	10.42	8.53	13.9	1.1	3.8
10573218	SS-01.35	SWBF0115-080421	2021-08-04	FG	351.1	10.18	7.93	14.8	4.82	5.4
10573218	SS-01	SWBF0116-080421	2021-08-04	FG	312.1	9.18	7.90	14	1.24	3.4
10577494	SS-07	SWBF0133-090121	2021-09-01	FG	1064	7.46	7.47	16.3	1.7	26.6
10577494	SS-06G	SWBF0134-090121	2021-09-01	FG-N	1624	8.92	7.97	14.1	0.47	19.9
10577494	SS-06G	SWBF0135-090121	2021-09-01	FG-D	1624	8.92	7.97	14.1	0.47	19.9
10577494	SS-06A	SWBF0137-090121	2021-09-01	FG	1496	10.32	8.15	15	0.46	20.1
10577494	SS-05A	SWBF0138-090121	2021-09-01	FG	1448	10.72	8.17	15.4	0.75	18.5
10577494	SS-05	SWBF0139-090121	2021-09-01	FG	1414	9.72	7.87	15.7	0.8	20.2
10577494	SS-04	SWBF0140-090121	2021-09-01	FG	380	10.1	8.11	12.2	1.04	5.9
10577494	SS-01.35	SWBF0141-090121	2021-09-01	FG	366.7	10.52	7.90	12.3	4.86	6.0
10577494	SS-01	SWBF0142-090121	2021-09-01	FG	306	9.45	7.87	12	1.36	2.3
10584279	SS-07	SWBF0163-101821	2021-10-18	FG	1363	9.82	7.61	9.9	1.62	22.5
10584279	SS-06G	SWBF0164-101821	2021-10-18	FG-N	1537	10.84	8.03	7.9	0.4	16.8
10584279	SS-06G	SWBF0165-101821	2021-10-18	FG-D	1537	10.84	8.03	7.9	0.4	16.8
10584279	SS-06A	SWBF0167-101821	2021-10-18	FG	1585	11.89	8.01	8.5	0.38	15.2
10584279	SS-05A	SWBF0168-101821	2021-10-18	FG	1571	11.69	7.96	8.7	0.61	14.2
10584279	SS-05	SWBF0169-101821	2021-10-18	FG	1556	11.32	7.84	9.3	0.71	15.4
10584279	SS-04	SWBF0170-101821	2021-10-18	FG	342.4	11.12	7.93	7.8	1	6.9
10584279	SS-01.35	SWBF0171-101821	2021-10-18	FG	338.2	11.48	7.78	8.5	5.22	7.0
10584279	SS-01	SWBF0172-101821	2021-10-18	FG	296.8	10.3	7.72	8	1.5	3.5
10585797	SS-07	SWBF0173-110121	2021-11-01	FG	1088	9.73	7.38	9.9	1.69	26.6
10585797	SS-06G	SWBF0174-110121	2021-11-01	FG-N	1392	12.04	7.79	6	0.485	22.9
10585797	SS-06G	SWBF0175-110121	2021-11-01	FG-D	1392	12.04	7.79	6	0.485	22.9
10585797	SS-06A	SWBF0177-110121	2021-11-01	FG	1388	13.46	7.76	6.5	0.5	20.0
10585797	SS-05A	SWBF0178-110121	2021-11-01	FG	1369	13.16	7.68	7	0.74	21.1
10585797	SS-05	SWBF0179-110121	2021-11-01	FG	1359	13.33	7.63	7.4	0.86	25.8
10585797	SS-04	SWBF0180-110121	2021-11-01	FG	344.1	12.09	7.70	4.5	1.11	6.8
10585797	SS-01.35	SWBF0181-110121	2021-11-01	FG	342.6	12.33	7.65	5.5	5.4	6.3
10585797	SS-01	SWBF0182-110121	2021-11-01	FG	298.6	11.32	7.58	5.3	1.44	4.0
10590953	SS-07	SWBF0183-120821	2021-12-08	FG	1077	9.41	7.36	7.2	1.66	27.6

Table 9d. BPSOU 2021 Normal Flow Results - Field

SDG	Location	Field Sample ID	Sample Date	Sample Type	Cond (µS/CM)	DO (mg/L)	pH (SU)	Temp (°C)	Stage (FT)	Flow (CFS)
10590953	SS-06G	SWBF0184-120821	2021-12-08	FG-N	1253	11.09	7.87	4	0.48	20.7
10590953	SS-06G	SWBF0185-120821	2021-12-08	FG-D	1253	11.09	7.87	4	0.48	20.7
10590953	SS-06A	SWBF0187-120821	2021-12-08	FG	1248	11.44	7.74	4.4	0.49	19.8
10590953	SS-05A	SWBF0188-120821	2021-12-08	FG	1241	11.12	7.67	4.5	0.74	22.9
10590953	SS-05	SWBF0189-120821	2021-12-08	FG	1217	11.27	7.64	4.9	0.88	19.6
10590953	SS-04	SWBF0190-120821	2021-12-08	FG	343.8	9.89	7.73	5.2	1.03	7.6
10590953	SS-01.35	SWBF0191-120821	2021-12-08	FG	338.6	9.5	7.61	5.7	4.92	7.8
10590953	SS-01	SWBF0192-120821	2021-12-08	FG	295.2	9.53	7.63	5.4	1.34	5.0

Table 10. BPSOU 2021 Surface Water Monitoring Sample Collection Matrix - Wet Weather

Event Start Date[1]	Silver Bow Creek					Blacktail Creek		
	SS-07	SS-06G	SS-06A	SS-05A[2]	SS-05	SS-04	SS-01.35	SS-01
5/23/2021	ISCO (+P)	ISCO (+P)	ISCO		ISCO	ISCO	ISCO	ISCO (+P)
5/26/2021	ISCO (+P)	ISCO (+P)	ISCO		ISCO	ISCO	ISCO	ISCO (+P)
6/10/2021	ISCO (+P)	ISCO (+P)	ISCO		ISCO	ISCO	ISCO	ISCO (+P)
7/1/2021	ISCO (+P)	ISCO (+P)	ISCO		ISCO	ISCO	ISCO	ISCO (+P)
8/1/2021	ISCO (+P)	ISCO (+P)	ISCO		ISCO	ISCO	ISCO	ISCO (+P)
8/8/2021	ISCO (+P)	ISCO (+P)	ISCO		ISCO	ISCO	ISCO	ISCO (+P)
8/18/2021	ISCO (+P)	ISCO (+P)	ISCO			ISCO		
8/21/2021	ISCO (+P)	ISCO (+P)	ISCO		ISCO	ISCO	ISCO	ISCO (+P)

[1]Wet weather samples are collected in response to precipitation or snowmelt events and are therefore not necessarily collected every month.

[2]Wet weather samples were not collected at SS-05A in 2021.

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	Lab Q	Val Q	Status	AlTR (mg/L)	Lab Q	Val Q	Status	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	0.00011	J		E	1.7			E	0.0046			E	0.00011			E	0.028			E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	0.00023	J		E	2.6			E	0.005			E	0.00013			E	0.035			E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.000077	U		E	0.19			E	0.0028			E	0.00003	U		E	0.006			E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.000077	U		E	0.32			E	0.003			E	0.00003	U		E	0.0069			E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	0.000078	J		E	0.78			E	0.0066			E	0.00013			E	0.041			E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	0.00012	J		E	1.3			E	0.0078			E	0.00021			E	0.032			E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	0.00017	J		E	2.1			E	0.0086			E	0.00024			E	0.042			E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	0.00013	J		E	1.2			E	0.0074			E	0.00024			E	0.032			E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	0.00011	J			1.1				0.008				0.00024				0.031			
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	0.000089	J		E	1.1			E	0.0074			E	0.00014			E	0.028			E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	0.00014	J		E	1.3			E	0.0073			E	0.00018			E	0.032			E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	0.00021	J		E	1.8			E	0.0094			E	0.00028			E	0.046			E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	0.00025	J		E	1.2			E	0.0072			E	0.00022			E	0.028			E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	0.00024	J		E	1.5			E	0.008			E	0.00025			E	0.038			E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	0.00013	J		E	0.85			E	0.006			E	0.00023			E	0.024			E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	0.00018	J		E	1.1			E	0.0058			E	0.0002			E	0.027			E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	0.000077	U		E	0.5			E	0.0052			E	0.00014			E	0.021			E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	0.000079	J		E	1.5			E	0.0044			E	0.000092			E	0.025			E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	0.00019	J		E	3.5			E	0.0065			E	0.00021			E	0.056			E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	0.00013	J	J-	S	0.73			E	0.0035			E	0.000071	J		E	0.014			E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.00012	J	J-	S	0.09			E	0.0024			E	0.00003	U		E	0.0047			E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	0.000077	U	R	R	0.97			E	0.0061			E	0.000074	J		E	0.028			E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	0.000077	U	R	R	1.2			E	0.0058			E	0.000084			E	0.021			E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	0.00016	J	J-	S	2.7			E	0.0077			E	0.00017			E	0.038			E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	0.000077	U	R	R	0.44			E	0.0041			E	0.000066	J		E	0.0096			E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.000077	U,M1	R	R	0.56			E	0.0066			E	0.000059	J		E	0.012			E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	0.000077	U	R	R	1.3			E	0.0089			E	0.00018			E	0.029			E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	0.000077	U	R	R	1.1			E	0.0084			E	0.00017			E	0.024			E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.000077	U	R	R	0.18			E	0.0053			E	0.000062	J		E	0.0077			E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	0.000077	U		E	1.6			E	0.0083			E	0.00021			E	0.033			E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.000077	U		E	0.21			E	0.005			E	0.00012			E	0.0087			E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.000077	U		E	0.55			E	0.0057			E	0.00021			E	0.02			E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	0.00015	J		E	1.2			E	0.0075			E	0.00032			E	0.034			E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	0.000077	U		E	0.93			E	0.0074			E	0.0002			E	0.027			E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	0.000077	U		E	1.5			E	0.0092			E	0.00025			E	0.041			E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	0.000077	U		E	1.5			E	0.011			E	0.00037			E	0.046			E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	0.000077	U		E	0.86			E	0.0069			E	0.00027			E	0.027			E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	0.000077	U		E	0.95			E	0.0072			E	0.00021			E	0.029			E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	0.000077	U		E	0.71			E	0.0068			E	0.00023			E	0.025			E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	0.00063			E	0.84			E	0.005			E	0.0002			E	0.022			E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	0.00017	J		E	0.69			E	0.0053			E	0.00016			E	0.022			E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	0.000077	U			0.67				0.0054				0.00016				0.022			
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	0.00038	U		E	0.73			E	0.0041			E	0.00021	J		E	0.021			E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	0.00038	U		E	1.3			E	0.0042			E	0.00015	U		E	0.016			E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	0.00038	U		E	2.9			E	0.006			E	0.00022	J		E	0.044			E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	0.00038	U		E	2.9			E	0.0058			E	0.0002	J		E	0.04			E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	0.00038	U			2.8				0.006				0.00022	J			0.04			
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.00038	U			0.036	U			0.0007	U			0.00015	U			0.0021	U		
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	0.00038	U		E	0.66			E	0.0055			E	0.00015	U		E	0.023			E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	0.00038	U		E	1.2			E	0.0059			E	0.00016	J		E	0.031			E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	0.00038	U		E	1			E	0.0055			E	0.00015	J		E	0.023			E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.00013	J		E	0.53			E	0.0053			E	0.00016			E	0.017			E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	0.00038	U		E	0.74			E	0.0054			E	0.00015	U		E	0.023			E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	0.00038	U		E	0.9			E	0.0049			E	0.00016	J		E	0.02			E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	0.00038	U		E	0.78			E	0.0055			E	0.00017	J		E	0.019			E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.00013	J		E	0.5			E	0.0053			E	0.00019			E	0.014			E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	0.000077	U		E	0.62			E	0.005			E	0.00013			E	0.02			E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.00038	U		E	0.71			E	0.0043			E	0.00015	U		E	0.019			E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	0.00038	U		E	0.68			E	0.0046			E	0.00015	U		E	0.017			E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	0.00038	U		E	0.72			E	0.0056			E	0.00018	J		E	0.02			E
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	0.00038	U		E	2.9			E	0.0061			E	0.00024	J		E	0.049			E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	0.00038	U		E	1.7			E	0.0047			E	0.00016	J		E	0.033			E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	0.00015	J		E	0.98			E	0.0042			E	0.0001			E	0.017			E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	0.0002	J		E	1.9			E	0.0055			E	0.00019			E	0.028			E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.000077	U		E	0.31			E	0.0038			E	0.000056	J		E	0.0093			E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.000077	U		E	0.51			E	0.0039			E	0.000055	J		E	0.012			E

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	MoTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	2			E	0.000045	U		E	0.0038			E	0.0073			E	0.041			E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	2.9			E	0.000045	U		E	0.0043			E	0.01			E	0.064			E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.6			E	0.000045	U		E	0.0045			E	0.00076			E	0.0079			E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.78			E	0.000045	U		E	0.0042			E	0.0011			E	0.012			E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	1.1			E	0.000045	U		E	0.32			E	0.0074			E	0.058			E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	1.7			E	0.00006	J		E	0.27			E	0.012			E	0.064			E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	2.6			E	0.000045	U		E	0.25			E	0.015			E	0.085			E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	1.8			E	0.000045	U		E	0.22			E	0.011			E	0.091			E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	1.8				0.000045	U			0.23				0.012				0.094			
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.012	U			0.000045	U			0.000081	U			0.00005	J			0.0023	U		
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	1.4			E	0.000045	U		E	0.31			E	0.0098			E	0.058			E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	1.7			E	0.000045	U		E	0.27			E	0.011			E	0.064			E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	2.7			E	0.000045	U		E	0.27			E	0.016			E	0.091			E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	1.7			E	0.000045	U		E	0.2			E	0.013			E	0.1			E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	2.2			E	0.000045	U		E	0.21			E	0.012			E	0.089			E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	1.3			E	0.000045	U		E	0.15			E	0.01			E	0.075			E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	1.5			E	0.000045	U		E	0.2			E	0.016			E	0.093			E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	1.1			E	0.000045	U		E	0.18			E	0.0053			E	0.06			E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	1.8			E	0.000045	U		E	0.0037			E	0.0065			E	0.037			E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	4			E	0.000045	U		E	0.0048			E	0.015			E	0.093			E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	1.2			E	0.000045	U		E	0.0043			E	0.0032			E	0.027			E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.46			E	0.000045	U		E	0.0041			E	0.0005			E	0.01			E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	1.5			E	0.000045	U		E	0.0049			E	0.0056			E	0.037			E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	1.7			E	0.000045	U		E	0.0043			E	0.0064			E	0.037			E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	3.9			E	0.00005	J		E	0.0047			E	0.011			E	0.071			E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	1.1			E	0.000045	U		E	0.0053			E	0.0022			E	0.057			E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.84			E	0.000045	U		E	0.0042			E	0.0034			E	0.027			E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	2.3			E	0.000045	U		E	0.0035			E	0.0095			E	0.069			E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	2.3			E	0.000045	U		E	0.0043			E	0.0076			E	0.057			E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.73			E	0.000045	U		E	0.0049			E	0.0017			E	0.02			E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	2.1			E	0.000045	U		E	0.3			E	0.013			E	0.076			E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.5			E	0.000045	U		E	0.28			E	0.0023			E	0.03			E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.94			E	0.000045	U		E	0.28			E	0.014			E	0.062			E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	1.7			E	0.000045	U		E	0.28			E	0.03			E	0.11			E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	1.3			E	0.000045	U		E	0.32			E	0.0085			E	0.055			E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	2.1			E	0.00006	J		E	0.29			E	0.015			E	0.084			E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	2.5			E	0.00005	J		E	0.28			E	0.017			E	0.099			E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	1.4			E	0.000045	U		E	0.2			E	0.015			E	0.088			E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	1.6			E	0.000045	U		E	0.21			E	0.011			E	0.077			E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	1.4			E	0.000045	U		E	0.18			E	0.0098			E	0.074			E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	1.2			E	0.000045	U		E	0.17			E	0.013			E	0.071			E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	1.3			E	0.000045	U		E	0.18			E	0.0074			E	0.073			E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	1.3				0.000045	U			0.18				0.0075				0.073			
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.012	U			0.000045	U			0.000081	U			0.000051	J			0.0023	U		
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	1.4			E	0.000045	U		E	0.0045			E	0.0029			E	0.031			E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	1.8			E	0.000045	U		E	0.0044			E	0.0041			E	0.034			E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	3.7			E	0.000045	U		E	0.0045			E	0.013			E	0.08			E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	3.5			E	0.000045	U		E	0.0039			E	0.013			E	0.072			E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	3.6				0.000045	U			0.0039				0.014				0.074			
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.06	U			0.000045	U			0.0004	U			0.00022	U			0.011	U		
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	1			E	0.000045	U		E	0.086			E	0.0053			E	0.037			E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	1.4			E	0.000045	U		E	0.24			E	0.0074			E	0.052			E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	1.3			E	0.000045	U		E	0.4			E	0.0062			E	0.045			E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.91			E	0.000045	U		E	0.41	P6		E	0.0049			E	0.032			E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	1.1			E	0.000045	U		E	0.069			E	0.006			E	0.039			E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	1.1			E	0.000045	U		E	0.3			E	0.0056			E	0.042			E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	1.2			E	0.000045	U		E	0.42			E	0.0058			E	0.042			E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.87			E	0.000045	U		E	0.44			E	0.0048			E	0.041			E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	1			E	0.000045	U		E	0.059			E	0.0054			E	0.051			E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.94			E	0.000045	U		E	0.22			E	0.0049			E	0.052			E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	1			E	0.000045	U		E	0.33			E	0.0049			E	0.044			E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	1.3			E	0.000045	U		E	0.31			E	0.0064			E	0.062			E
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	4			E	0.000045	U		E	0.0052			E	0.011			E	0.25			E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	2.4			E	0.000045	U		E	0.004			E	0.0062			E	0.056			E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	1.9			E	0.000045	U		E	0.0042			E	0.0043			E	0.029			E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	2.9			E	0.000045	U		E	0.0044			E	0.0093			E	0.054			E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.75			E	0.000045	U		E	0.0052			E	0.0018			E	0.013			E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.93			E	0.000045	U		E	0.0049			E	0.0027			E	0.018			E

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	Lab Q	Val Q	Status	AlTR (mg/L)	Lab Q	Val Q	Status	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	0.00012	J		E	1.9			E	0.0055			E	0.00014			E	0.035			E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	0.00016	J		E	3.2			E	0.0066			E	0.00018			E	0.047			E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.000077	U		E	0.3			E	0.0045			E	0.000052	J		E	0.009			E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	0.000077	U		E	0.64			E	0.0052			E	0.000082			E	0.015			E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	0.0001	J		E	1.7			E	0.006			E	0.00013			E	0.031			E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	0.000077	U		E	1.1			E	0.006			E	0.00024			E	0.022			E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	0.000077	U		E	0.76			E	0.0054			E	0.00012			E	0.022			E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	0.00018	J		E	1.2			E	0.0057			E	0.00017			E	0.025			E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.000079	J		E	0.68			E	0.0051			E	0.00013			E	0.015			E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.000077	U		E	0.23			E	0.0044			E	0.000078	J		E	0.0076			E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	0.000077	U		E	1			E	0.0059			E	0.00016			E	0.024			E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.000077	U		E	0.54			E	0.0053			E	0.00011			E	0.016			E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	0.000094	J		E	0.99			E	0.0058			E	0.00015			E	0.02			E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	0.000077	U		E	0.85			E	0.0055			E	0.00012			E	0.017			E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	0.000077	U			0.79				0.005				0.00012				0.016			
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.00013	J		E	0.45			E	0.0047			E	0.00013			E	0.018			E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.000077	U		E	0.59			E	0.0044			E	0.00012			E	0.018			E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	0.000077	U		E	0.81			E	0.0051			E	0.00015			E	0.019			E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.000077	U		E	0.4			E	0.0046			E	0.00013			E	0.014			E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.000077	U		E	0.27			E	0.0032			E	0.000037	J		E	0.01			E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.000077	U		E	0.25			E	0.0039			E	0.00012			E	0.009			E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	0.000092	J		E	1.6			E	0.005			E	0.0001			E	0.035			E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	0.00018	J		E	3.6			E	0.0064			E	0.00021			E	0.058			E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.000077	U		E	0.53		J	S	0.0046			E	0.00014			E	0.018		J	S
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.000077	U		E	0.54		J	S	0.0047			E	0.00015			E	0.019		J	S
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	0.00013	J		E	1.1		J	S	0.0064			E	0.00025			E	0.032		J	S
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	0.00018	J		E	1.4		J	S	0.0079			E	0.0003			E	0.046		J	S
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.000077	U		E	0.5		J	S	0.0047			E	0.00016			E	0.018		J	S
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.000077	U		E	0.66		J	S	0.0051			E	0.00018			E	0.02		J	S
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	0.00019	J		E	1.5		J	S	0.0074			E	0.0003			E	0.039		J	S
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.000077	U		E	0.44		J	S	0.0054			E	0.0002			E	0.023		J	S
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.000077	U			0.32		J		0.0046				0.00012				0.018		J	
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.000077	U		E	0.38		J	S	0.0036			E	0.00014			E	0.014		J	S
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.000077	U		E	0.38		J	S	0.0035			E	0.00012			E	0.013		J	S
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	0.00011	J		E	0.75		J	S	0.005			E	0.00019			E	0.026		J	S
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.000077	U		E	0.24		J	S	0.0037			E	0.00011			E	0.013		J	S
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.000077	U		E	0.22			E	0.0029			E	0.00003	U		E	0.009			E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.000077	U		E	0.22			E	0.0036			E	0.000045	J		E	0.013			E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.00018	J		E	0.72			E	0.0043			E	0.000074	J		E	0.017			E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	0.00028	J		E	2.5			E	0.0058			E	0.0002			E	0.049			E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.000077	U		E	0.25			E	0.004			E	0.000056	J		E	0.01			E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	0.000082	J		E	0.9			E	0.0048			E	0.000089			E	0.023			E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	0.00013	J		E	1.9			E	0.0062			E	0.00015			E	0.039			E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.000077	U		E	0.22			E	0.0032			E	0.000057	J		E	0.0082			E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.000077	U		E	0.32			E	0.005			E	0.000054	J		E	0.013			E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	0.000077	U		E	0.85			E	0.0054			E	0.000089			E	0.022			E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.000077	U		E	0.6			E	0.0045			E	0.000068	J		E	0.019			E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.000077	U		E	0.19			E	0.0042			E	0.000059	J		E	0.0077			E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.000077	U		E	0.24			E	0.0032			E	0.00003	U		E	0.0091			E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.000077	U		E	0.05			E	0.0028			E	0.00003	U		E	0.0038			E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.00016	U,1M	UJ	S	0.16	1M	J	S	0.0033	1M	J	S	0.000032	J,1M	J	S	0.0066	1M	J	S
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	0.00091			E	4.4			E	0.018			E	0.00086			E	0.18			E
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	0.00015	J		E	0.86			E	0.0058			E	0.00018			E	0.031			E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.000077	U		E	0.073			E	0.003			E	0.000046	J		E	0.0066			E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	0.00037	J		E	2.4			E	0.0089			E	0.00047			E	0.059			E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	0.00011	J		E	0.81			E	0.0074			E	0.0002			E	0.039			E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.000077	U		E	0.25		J	S	0.0033		J	S	0.000082			E	0.012		J	S
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.000077	U		E	0.31		J	S	0.0036		J	S	0.0001			E	0.013		J	S
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.000077	U		E	0.086		J	S	0.0027		J	S	0.000089			E	0.0076		J	S
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.000077	U		E	0.62		J	S	0.0049		J	S	0.00017			E	0.024		J	S
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.000077	U			0.2		J		0.0039		J		0.00016				0.015		J	
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	0.00027	J		E	2.1			E	0.0072			E	0.00015			E	0.034			E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	0.00023	J		E	3.2			E	0.0081			E	0.00022			E	0.057			E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	0.0011			E	20.3			E	0.024			E	0.0011			E	0.32			E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	0.0022			E	44.3			E	0.05			E	0.0026			E	0.72			E

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	MoTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	2.5			E	0.000045	U		E	0.0053			E	0.0093			E	0.053			E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	3.9			E	0.000045	U		E	0.0054			E	0.014			E	0.082			E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.77			E	0.000045	U		E	0.0051			E	0.0019			E	0.015			E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	1.3			E	0.000045	U		E	0.0051			E	0.0036			E	0.027			E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	2.3			E	0.000045	U		E	0.0051			E	0.0088			E	0.052			E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	2			E	0.000045	U		E	0.0061			E	0.0064			E	0.044			E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	1.3			E	0.000045	U		E	0.054			E	0.0067			E	0.037			E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	1.5			E	0.000045	U		E	0.26			E	0.0079			E	0.049			E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.97			E	0.000045	U		E	0.54			E	0.0041			E	0.031			E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.5			E	0.000045	U		E	0.46			E	0.0019			E	0.02			E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	1.5			E	0.000045	U		E	0.46			E	0.0068			E	0.048			E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.97			E	0.000045	U		E	0.44			E	0.005			E	0.031			E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	1.4			E	0.000045	U		E	0.42			E	0.011			E	0.058			E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	1.3			E	0.000045	U		E	0.42			E	0.0058			E	0.043			E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	1.1				0.000045	U			0.44				0.0054				0.039			
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.012	U			0.000045	U			0.00017	J			0.000074	J,B			0.0023	U		
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.82			E	0.000045	U		E	0.083			E	0.0044			E	0.049			E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.85			E	0.000045	U		E	0.15			E	0.0047			E	0.05			E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	1.2			E	0.000045	U		E	0.33			E	0.0056			E	0.051			E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.74			E	0.000045	U		E	0.36			E	0.0038			E	0.038			E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.48			E	0.000045	U		E	0.0049			E	0.0012			E	0.012			E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.47			E	0.000045	U		E	0.0049			E	0.0013			E	0.01			E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	1.9			E	0.000045	U		E	0.0047			E	0.0076			E	0.048			E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	4.2			E	0.000045	U		E	0.005			E	0.014			E	0.1			E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.8		J	S	0.000045	U		E	0.37			E	0.0063		J	S	0.042		J	S
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.79		J	S	0.000045	U		E	0.36			E	0.0078		J	S	0.041		J	S
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	1.5		J	S	0.000045	U		E	0.35			E	0.017		J	S	0.078		J	S
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	1.9		J	S	0.000045	U		E	0.35			E	0.021		J	S	0.095		J	S
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.86		J	S	0.000045	U		E	0.37			E	0.0069		J	S	0.04		J	S
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.93		J	S	0.000045	U		E	0.4			E	0.0095		J	S	0.049		J	S
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	1.9		J	S	0.000045	U		E	0.33			E	0.023		J	S	0.1		J	S
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.8		J	S	0.000045	U		E	0.51			E	0.0044		J	S	0.043		J	S
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.63		J		0.000045	U			0.43				0.0034		J		0.032		J	
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.017	J			0.000045	U			0.000081	U			0.000063	J			0.0023	U		
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.61		J	S	0.000045	U		E	0.24			E	0.0055		J	S	0.053		J	S
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.54		J	S	0.000045	U		E	0.26			E	0.0059		J	S	0.056		J	S
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	1.1		J	S	0.000045	U		E	0.2			E	0.013		J	S	0.086		J	S
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.5		J	S	0.000045	U		E	0.35			E	0.0029		J	S	0.046		J	S
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.4			E	0.000045	U		E	0.0048			E	0.001			E	0.01			E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.47			E	0.000045	U		E	0.005			E	0.0014			E	0.012			E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.93			E	0.000045	U		E	0.0046			E	0.0033			E	0.023			E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	3			E	0.000045	U		E	0.0049			E	0.011			E	0.08			E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.45			E	0.000045	U		E	0.0058			E	0.0016			E	0.016			E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	1.2			E	0.000045	U		E	0.0056			E	0.0044			E	0.036			E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	2.5			E	0.000045	U		E	0.0059			E	0.0089			E	0.064			E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.56			E	0.000045	U		E	0.0061			E	0.0011			E	0.011			E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.55			E	0.000045	U		E	0.0059			E	0.002			E	0.02			E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	1.2			E	0.000045	U		E	0.0055			E	0.0046			E	0.035			E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.91			E	0.000045	U		E	0.0055			E	0.0032			E	0.028			E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.6			E	0.000045	U		E	0.0068			E	0.0015			E	0.013			E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.4			E	0.000045	U		E	0.43			E	0.0018			E	0.017			E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.13			E	0.000045	U		E	0.42			E	0.00088			E	0.012			E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.21	1M	J	S	0.000045	U		E	0.45	1M	J	S	0.0025	1M	J	S	0.027	1M	J	S
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	5.8			E	0.000045	U		E	0.4			E	0.1			E	0.32			E
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	1.4			E	0.000045	U		E	0.4			E	0.013			E	0.063			E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.15			E	0.000045	U		E	0.42			E	0.0013			E	0.019			E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	3			E	0.000045	U		E	0.36			E	0.039			E	0.17			E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	1.6			E	0.000045	U		E	0.53			E	0.0089			E	0.088			E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.42		J	S	0.000045	U		E	0.25			E	0.0035		J	S	0.053		J	S
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.5		J	S	0.000045	U		E	0.24			E	0.0049		J	S	0.057		J	S
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.12		J	S	0.000045	U		E	0.21			E	0.0021		J	S	0.054		J	S
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.94		J	S	0.000045	U		E	0.25			E	0.0079		J	S	0.075		J	S
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.31		J		0.000045	U			0.27				0.0045		J		0.058		J	
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.012	U			0.000045	U			0.000081	U			0.000043	U			0.0023	U		
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	2.5			E	0.000045	U		E	0.0053			E	0.009			E	0.051			E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	3.8			E	0.000045	U		E	0.0061			E	0.015			E	0.081			E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	21.4			E	0.000089	J		E	0.013			E	0.089			E	0.58			E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	43			E	0.00013	J		E	0.027			E	0.19			E	1.2			E

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	Lab Q	Val Q	Status	AlTR (mg/L)	Lab Q	Val Q	Status	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	0.00032	J		E	2.3			E	0.01			E	0.00042			E	0.052			E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	0.00043	J		E	2.4			E	0.0097			E	0.00046			E	0.047			E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	0.0024			E	9.9			E	0.027			E	0.0019			E	0.18			E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	0.0062			E	26			E	0.069			E	0.0054			E	0.52			E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	0.00033	J		E	1.4			E	0.0091			E	0.00036			E	0.035			E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	0.00037	J		E	2.1			E	0.0095			E	0.00041			E	0.042			E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	0.0037			E	15.7			E	0.041			E	0.0031			E	0.27			E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	0.00068			E	5.5			E	0.026			E	0.001			E	0.16			E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	0.00075				5.4				0.025				0.0011				0.16			
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.00016	U		E	0.44			E	0.0047			E	0.00014			E	0.012			E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	0.00021	J		E	1.2			E	0.0055			E	0.00027			E	0.027			E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	0.0027			E	10.8			E	0.027			E	0.0021			E	0.19			E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	0.00024	J		E	1.9			E	0.012			E	0.00041			E	0.066			E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.00016	U		E	0.74			E	0.0053			E	0.000053	J		E	0.017			E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	0.00016	U		E	0.92			E	0.005			E	0.000074	J		E	0.021			E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	0.00016	U		E	2.4			E	0.008			E	0.00017			E	0.046			E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	0.0012			E	20			E	0.026			E	0.0012			E	0.35			E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	0.0014				21.3				0.029				0.0013				0.39			
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	0.00016	U		E	1.9			E	0.0071			E	0.00016			E	0.036			E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	0.00025	J		E	4.1			E	0.0091			E	0.00028			E	0.082			E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	0.00072			E	10.8			E	0.018			E	0.00066			E	0.19			E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	0.0003	J		E	4.1			E	0.014			E	0.00048			E	0.072			E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	0.00039	J		E	6.2			E	0.013			E	0.0004			E	0.1			E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.000077	U		E	0.36			E	0.0052			E	0.000083			E	0.011			E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.00016	U		E	0.15			E	0.005			E	0.000041	J		E	0.0066			E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.000077	U		E	0.15			E	0.0049			E	0.000049	J		E	0.0067			E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	0.00029	J		E	3			E	0.0099			E	0.00039			E	0.056			E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	0.00022	J		E	1.4			E	0.0078			E	0.00028			E	0.028			E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	0.00078			E	4.1			E	0.014			E	0.00075			E	0.08			E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	0.016			E	72.3			E	0.18			E	0.019			E	1.7			E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	0.00036	J		E	2			E	0.011			E	0.00058			E	0.046			E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	0.00037	J		E	1.9			E	0.0091			E	0.00049			E	0.039			E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	0.0034			E	15.8			E	0.038			E	0.0029			E	0.26			E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	0.0005			E	3.5			E	0.02			E	0.00068			E	0.12			E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	0.00039	J		E	1.2			E	0.0059			E	0.00025			E	0.027			E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	0.00025	J		E	1.1			E	0.0052			E	0.00025			E	0.025			E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	0.0011			E	5.4			E	0.014			E	0.001			E	0.092			E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	0.0027			E	13.6			E	0.033			E	0.0025			E	0.25			E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.00021	J		E	0.2			E	0.0027			E	0.000049	J		E	0.0076			E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.00019	J		E	0.71			E	0.0037			E	0.000062	J		E	0.016			E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	0.00044	J		E	9.9			E	0.014			E	0.00059			E	0.15			E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	0.00062			E	12.7			E	0.017			E	0.00082			E	0.18			E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.00016	U		E	0.77			E	0.0063			E	0.00037			E	0.024			E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	0.0017			E	6.6			E	0.025			E	0.0017			E	0.15			E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	0.0015			E	7.3			E	0.027			E	0.0015			E	0.17			E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	0.00023	J		E	2.1			E	0.0094			E	0.00034			E	0.048			E
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.00016	U		E	0.008	U		E	0.0041			E	0.0002			E	0.0043			E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	0.0034			E	13.2			E	0.045			E	0.0028			E	0.27			E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	0.00034	J		E	2.8			E	0.01			E	0.00043			E	0.054			E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.00016	U		E	0.11			E	0.0037			E	0.000084			E	0.0059			E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.00016	U			0.11				0.0038				0.000084				0.0062			
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	0.00037	J		E	1.9			E	0.01			E	0.00063			E	0.046			E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	0.0017			E	8.7			E	0.032			E	0.0019			E	0.2			E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	0.00027	J		E	2.1			E	0.0086			E	0.00034			E	0.049			E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.00016	U		E	0.088			E	0.0029			E	0.000057	J		E	0.0042			E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.00016	U		E	0.11			E	0.0029			E	0.00002	J		E	0.0065			E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.00016	U		E	0.54			E	0.0043			E	0.000062	J		E	0.013			E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	0.00038	J		E	3.6			E	0.0087			E	0.0002			E	0.053			E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	0.001			E	13.8			E	0.019			E	0.00096			E	0.24			E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	0.00081				13.6				0.019				0.00092				0.25			
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	0.00016	U		E	1.8			E	0.0053			E	0.00013			E	0.035			E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	0.00025	J		E	4.9			E	0.0089			E	0.00033			E	0.082			E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	0.0002	J		E	3.5			E	0.0067			E	0.00024			E	0.053			E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.00016	U		E	0.027			E	0.0021			E	0.000045	J		E	0.0037			E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.00017	J		E	0.018	J		E	0.0035			E	0.000032	J		E	0.0038			E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.00016	U		E	0.04			E	0.0034			E	0.000058	J		E	0.0059			E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.00016	U		E	0.032			E	0.0032			E	0.000028	J		E	0.004			E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.00016	U		E	0.039			E	0.0036			E	0.000031	J		E	0.0051			E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	0.0003	J		E	1.7			E	0.0075			E	0.00049			E	0.04			E

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	MoTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	2.8			E	0.000062	J		E	0.19			E	0.037			E	0.14			E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	2.7			E	0.00006	J		E	0.3			E	0.051			E	0.17			E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	11.2			E	0.0003			E	0.2			E	0.28			E	0.73			E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	31.6			E	0.00092			E	0.15			E	0.74			E	1.8			E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	1.8			E	0.000045	U		E	0.22			E	0.031			E	0.12			E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	2.3			E	0.00006	J		E	0.27			E	0.048			E	0.16			E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	17.6			E	0.00051			E	0.13			E	0.46			E	1			E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	8.4			E	0.00018	J		E	0.39			E	0.066			E	0.38			E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	8.2				0.00013	J			0.36				0.063				0.32			
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.012	U			0.000045	U			0.00012	J			0.000092	J			0.002	U		
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.59			E	0.000045	U		E	0.15			E	0.01			E	0.069			E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	1.3			E	0.000045	U		E	0.12			E	0.029			E	0.13			E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	12.2			E	0.00031			E	0.06			E	0.33			E	0.81			E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	3.2			E	0.000047	J		E	0.29			E	0.023			E	0.14			E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.89			E	0.000045	U		E	0.0048			E	0.0034			E	0.021			E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	1			E	0.000045	U		E	0.0046			E	0.0042			E	0.027			E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	2.6	M1	J+	S	0.000045	U		E	0.0055			E	0.011			E	0.063			E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	21.7		J+	S	0.000085	J		E	0.014			E	0.098			E	0.59			E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	24		J+		0.000095	J			0.015				0.11				0.67			
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.012	U			0.000045	U			0.000081	U			0.000089	J			0.0023	U		
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	2.2		J+	S	0.000045	U		E	0.007			E	0.0086			E	0.056			E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	4.5		J+	S	0.000045	U		E	0.0073			E	0.02			E	0.12			E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	12.3		J+	S	0.000059	J		E	0.0098			E	0.054			E	0.3			E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	8.4		J+	S	0.00009	J		E	0.0065			E	0.018			E	0.11			E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	7.1		J+	S	0.000045	U		E	0.0075			E	0.031			E	0.18			E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.98		J+	S	0.000045	U		E	0.0067			E	0.0029			E	0.019			E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.55		J+	S	0.000045	U		E	0.007			E	0.0015			E	0.011			E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.49		J+	S	0.000045	U		E	0.0068			E	0.0014			E	0.013			E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	3.5			E	0.000066	J		E	0.2			E	0.032			E	0.13			E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	1.6			E	0.000045	U		E	0.39			E	0.031			E	0.11			E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	4.6			E	0.000097	J		E	0.33			E	0.11			E	0.35			E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	103			E	0.0011			E	0.14			E	2.1			E	7.3			E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	2.6			E	0.000056	J		E	0.22			E	0.04			E	0.14			E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	2.1			E	0.000045	U		E	0.36			E	0.044			E	0.15			E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	16.9			E	0.00038			E	0.25			E	0.43			E	1.1			E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	5.1			E	0.00012	J		E	0.41			E	0.04			E	0.2			E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	1.4			E	0.000078	J,B		E	0.13			E	0.02			E	0.094			E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	1.3			E	0.000057	J,B		E	0.17			E	0.025			E	0.11			E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	5.7			E	0.0002	B		E	0.085			E	0.14			E	0.41			E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	15.5			E	0.00053			E	0.12			E	0.33			E	0.91			E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.33			E	0.000045	U		E	0.0046			E	0.0011			E	0.0097			E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.81			E	0.000045	U		E	0.0045			E	0.0035			E	0.022			E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	10.1			E	0.000045	U		E	0.0081			E	0.052			E	0.32			E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	13.7			E	0.000062	J		E	0.01			E	0.068			E	0.45			E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.91			E	0.000045	U		E	0.33		J-	S	0.022			E	0.11			E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	7.9			E	0.00023			E	0.17		J-	S	0.22			E	0.62			E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	8.8			E	0.00033			E	0.14		J-	S	0.19			E	0.49			E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	2.4			E	0.000045	U		E	0.32		J-	S	0.031			E	0.11			E
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.012	U		E	0.000045	U		E	0.29	M1	J-	S	0.00021		J+	S	0.034			E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	15.7			E	0.00036			E	0.071		J-	S	0.42			E	0.97			E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	3.1			E	0.000045	U		E	0.19		J-	S	0.045			E	0.16			E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.18			E	0.000045	U		E	0.38		J-	S	0.0014			E	0.026			E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.18				0.000045	U			0.39		J-		0.0017				0.027			
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.012	U			0.000045	U			0.000094	U			0.000088	J			0.002	U		
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	2.3			E	0.000064	J		E	0.15		J-	S	0.059			E	0.27			E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	11			E	0.00022			E	0.045		J-	S	0.23			E	0.61			E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	2.4			E	0.000045	U		E	0.15		J-	S	0.026			E	0.13			E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.1			E	0.000045	U		E	0.22		J-	S	0.00082		J+	S	0.035			E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.26			E	0.000045	U		E	0.0046			E	0.00059		J+	S	0.0063			E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.74			E	0.000045	U		E	0.0053			E	0.003			E	0.02			E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	3.5			E	0.000045	U		E	0.0052			E	0.016			E	0.079			E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	15.9			E	0.000054	J		E	0.011			E	0.082			E	0.41			E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	15.8				0.000056	J			0.011				0.079				0.4			
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.012	U			0.000045	U			0.000094	U			0.000094	J			0.002	U		
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	1.9			E	0.000045	U		E	0.0061			E	0.0092			E	0.053			E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	4.9			E	0.000045	U		E	0.007			E	0.024			E	0.12			E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	3.8			E	0.000045	U		E	0.006			E	0.015			E	0.091			E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.17			E	0.000045	U		E	0.0058			E	0.00038		J+	S	0.015			E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.16			E	0.000045	U		E	0.0065			E	0.00036		J+	S	0.0061			E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.19			E	0.000045	U		E	0.0064			E	0.00053		J+	S	0.011			E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.15			E	0.000045	U		E	0.0062			E	0.00042		J+	S	0.0048	J		E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.18			E	0.000045	U		E	0.0063			E	0.00054		J+	S	0.013			E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	2			E	0.000045	U		E	0.37			E	0.048			E	0.18			E

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	Lab Q	Val Q	Status	AlTR (mg/L)	Lab Q	Val Q	Status	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	0.00085			E	4.1			E	0.015			E	0.0012			E	0.1			E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.00016	U		E	0.51			E	0.0037			E	0.00014			E	0.012			E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	0.00016	U		E	1.2			E	0.0045			E	0.00013			E	0.021			E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	0.00054			E	2.7			E	0.012			E	0.00084			E	0.07			E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	0.0042			E	14.8			E	0.047			E	0.0033			E	0.33			E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	0.00044	J		E	3.3			E	0.01			E	0.00058			E	0.063			E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.00016	U		E	0.098			E	0.0033			E	0.000097			E	0.0092			E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	0.00042	J		E	1			E	0.006			E	0.00046			E	0.029			E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	0.0022			E	9.7			E	0.029			E	0.002			E	0.2			E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	0.00047	J		E	3.3			E	0.012			E	0.00057			E	0.076			E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.00016	U		E	0.51			E	0.0045			E	0.00014			E	0.018			E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	0.00059			E	7.9	M1	J+	S	0.01			E	0.00047			E	0.14			E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.00016	U		E	0.049			E	0.0019			E	0.000031	J		E	0.0044			E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.00016	U		E	0.2		J+	S	0.0021			E	0.000041	J		E	0.0071			E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.00016	U		E	0.31		J+	S	0.0024			E	0.000044	J		E	0.0087			E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	0.0002	J		E	1.7			E	0.007			E	0.00028			E	0.045			E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	0.00031	J		E	2.1			E	0.0089			E	0.00042			E	0.068			E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	0.00026	J		E	1.4			E	0.006			E	0.00036			E	0.031			E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	0.00036	J		E	2.1			E	0.0082			E	0.00046			E	0.049			E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	0.00023	J		E	1.6			E	0.0075			E	0.00033			E	0.047			E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	0.00031	J		E	2.6			E	0.0095			E	0.00051			E	0.055			E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	0.00037	J		E	2.1			E	0.0077			E	0.00048			E	0.046			E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.00016	U		E	0.4			E	0.004			E	0.00016			E	0.014			E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.00016	U			0.37				0.0038				0.00014				0.013			
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	0.0002	J		E	1.2			E	0.0059			E	0.00027			E	0.035			E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	0.0002	J		E	1.5			E	0.0064			E	0.00033			E	0.034			E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	0.00019	J		E	1.1			E	0.0048			E	0.00027			E	0.026			E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.00016	U		E	0.42			E	0.0037			E	0.00014			E	0.013			E
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	0.00028	J		E	4.9		J+	S	0.0079			E	0.0003			E	0.086			E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	0.00045	J		E	7.9		J+	S	0.011			E	0.00052			E	0.14			E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.00016	U		E	0.041			E	0.0018			E	0.000021	J		E	0.0042			E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.00016	U		E	0.24			E	0.0023			E	0.00005	J		E	0.0096			E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	0.00016	U		E	1.2			E	0.0046			E	0.0001			E	0.022			E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	0.00023	J		E	2.9			E	0.0059			E	0.00018			E	0.048			E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	0.0003	J		E	5.4			E	0.0078			E	0.00031			E	0.087			E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.00016	U		E	0.16			E	0.0021			E	0.000043	J		E	0.005			E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	0.00016	U		E	2.3			E	0.0054			E	0.00015			E	0.035			E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.00016	U		E	0.24			E	0.0034			E	0.000063	J		E	0.0076			E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.00016	U		E	0.013	J		E	0.0025			E	0.000044	J		E	0.0037			E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.00016	U		E	0.044			E	0.0027			E	0.000034	J		E	0.006			E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	0.00018	J		E	1.7			E	0.0059			E	0.00022			E	0.039			E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	0.00021	J		E	1.4			E	0.0055			E	0.00026			E	0.032			E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	0.00073			E	4.5			E	0.012			E	0.00082			E	0.096			E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	0.00021	J		E	1.4			E	0.0065			E	0.0003			E	0.029			E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	0.00023	J			1.6				0.0067				0.00037				0.034			
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.00057	J		
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	0.00028	J		E	2			E	0.0076			E	0.00033			E	0.058			E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	0.0004	J		E	3			E	0.01			E	0.00054			E	0.064			E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	0.0004	J		E	1.9			E	0.0071			E	0.00047			E	0.047			E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.00016	U		E	0.41			E	0.0037			E	0.00015			E	0.014			E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	0.00022	J		E	1			E	0.005			E	0.0002			E	0.034			E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	0.00021	J		E	1.3			E	0.0059			E	0.00027			E	0.034			E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.00016	U		E	0.51			E	0.0033			E	0.00018			E	0.016			E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	0.00023	J		E	1.3			E	0.0052			E	0.00027			E	0.03			E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	0.00047	J		E	1.5			E	0.0085			E	0.00032			E	0.055			E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	0.00047	J		E	1.9			E	0.0082			E	0.00036			E	0.054			E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	0.0003	J		E	1.3			E	0.0067			E	0.00037			E	0.04			E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	0.00044	J		E	2.2			E	0.0096			E	0.00052			E	0.067			E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	0.00029	J		E	1.1			E	0.0074			E	0.00027			E	0.045			E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	0.00046	J		E	2			E	0.0079			E	0.00052			E	0.054			E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	0.00037	J		E	2.2			E	0.0097			E	0.00042			E	0.067			E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	0.00018	J		E	1			E	0.0065			E	0.00032			E	0.036			E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	0.0003	J			1.1				0.0073				0.00034				0.041			
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	J,B	UJ		0.0005	U		
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	0.00022	J		E	0.91			E	0.0064			E	0.00027			E	0.038			E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	0.00024	J		E	1.2			E	0.0066			E	0.00029			E	0.041			E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	0.00025	J		E	1.1			E	0.0057			E	0.00033			E	0.034			E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.00016	U		E	0.59			E	0.0052			E	0.00019	B	J+	S	0.024			E
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	0.00016	U		E	1.2			E	0.0054			E	0.00015	B	J+	S	0.027			E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.00016	U		E	0.37			E	0.005			E	0.00012	B	J+	S	0.015			E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.00016	U		E	0.055			E	0.0034			E	0.000047	J,B	UJ	S	0.006			E

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	MoTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	5.1			E	0.00017	J		E	0.34			E	0.13			E	0.48			E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.62			E	0.000045	U		E	0.36			E	0.015			E	0.041			E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	1.3			E	0.000045	U		E	0.39			E	0.011			E	0.048			E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	3.3			E	0.00009	J		E	0.31			E	0.081			E	0.3			E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	18			E	0.00047			E	0.051			E	0.53			E	1.2			E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	3.4			E	0.000045	J		E	0.2			E	0.063			E	0.2			E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.16			E	0.000045	U		E	0.39			E	0.0024			E	0.011			E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	1.2	M1	J-	S	0.000045	U		E	0.18	M1	J-	S	0.033			E	0.17	M1	J-	S
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	10.5		J-	S	0.00025			E	0.071		J-	S	0.26			E	0.68		J-	S
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	3.8		J-	S	0.000094	J		E	0.14		J-	S	0.055			E	0.23		J-	S
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.77		J-	S	0.000045	U		E	0.24		J-	S	0.0082			E	0.072		J-	S
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	8.4	P6		E	0.000045	U		E	0.0063			E	0.037			E	0.17			E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.16			E	0.000045	U		E	0.0041			E	0.00032		J+	S	0.0044	J		E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.32			E	0.000045	U		E	0.0044			E	0.00085			E	0.01			E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.44			E	0.000045	U		E	0.0044			E	0.0012			E	0.017			E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	2.1			E	0.000045	U		E	0.1			E	0.022			E	0.077			E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	2.5			E	0.000052	J		E	0.13			E	0.033			E	0.12			E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	1.5			E	0.000045	U		E	0.18			E	0.03			E	0.11			E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	2.5			E	0.000045	J		E	0.18			E	0.046			E	0.15			E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	2			E	0.000045	U		E	0.1			E	0.024			E	0.089			E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	2.9			E	0.000063	J		E	0.19			E	0.037			E	0.14			E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	2.4			E	0.000045	U		E	0.074			E	0.051			E	0.16			E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.61			E	0.000045	U		E	0.31			E	0.0071			E	0.038			E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.58				0.000045	U			0.3				0.0074				0.036			
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.012	U			0.000045	U			0.000094	U			0.000064	J			0.002	U		
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	1.4			E	0.000045	U		E	0.076			E	0.017			E	0.079			E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	1.7			E	0.000045	U		E	0.13			E	0.022			E	0.1			E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	1.2			E	0.000045	U		E	0.044			E	0.025			E	0.11			E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.61			E	0.000045	U		E	0.2			E	0.007			E	0.054			E
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	5.3			E	0.000045	U		E	0.0044			E	0.023			E	0.11			E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	8.9			E	0.000045	U		E	0.0072			E	0.04			E	0.2			E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.14			E	0.000045	U		E	0.0041			E	0.00021		J+	S	0.0042	J		E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.37			E	0.000045	U		E	0.0044			E	0.001			E	0.015			E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	1.3			E	0.000045	U		E	0.0046			E	0.0052			E	0.033			E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	3.1			E	0.000045	U		E	0.0038			E	0.013			E	0.067			E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	5.6			E	0.000045	U		E	0.0049			E	0.021			E	0.12			E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.35			E	0.000045	U		E	0.0059			E	0.00072		J+	S	0.011			E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	2.3			E	0.000045	U		E	0.004			E	0.01			E	0.053			E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.54			E	0.000045	U		E	0.0058			E	0.0014			E	0.015			E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.13			E	0.000045	U		E	0.0058			E	0.0002		J+	S	0.0088			E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.2			E	0.000045	U		E	0.0061			E	0.00043		J+	S	0.01			E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	1.8			E	0.000045	U		E	0.079			E	0.016			E	0.065			E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	1.4			E	0.000045	U		E	0.14			E	0.02			E	0.076			E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	5.2			E	0.000075	J		E	0.18			E	0.088			E	0.3			E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	1.4			E	0.000045	U		E	0.24			E	0.026			E	0.11			E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	1.7				0.000045	U			0.26				0.029				0.12			
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.012	U			0.000045	U			0.000094	U			0.000083	J			0.002	U		
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	2.2			E	0.000045	U		E	0.1			E	0.025			E	0.097			E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	3.3			E	0.000086	J		E	0.14			E	0.041			E	0.15			E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	2.3			E	0.000045	U		E	0.073			E	0.048			E	0.17			E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.55			E	0.000045	U		E	0.33			E	0.0071			E	0.036			E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	1.2			E	0.000045	U		E	0.07			E	0.012			E	0.07			E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	1.5			E	0.000045	U		E	0.088			E	0.019			E	0.091			E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.61			E	0.000045	U		E	0.086			E	0.011			E	0.07			E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	1.4			E	0.000045	U		E	0.11			E	0.024			E	0.11			E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	1.7			E	0.000045	U		E	0.015			E	0.025			E	0.096			E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	2.2			E	0.000064	J		E	0.033			E	0.028			E	0.11			E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	1.5			E	0.000045	U		E	0.16			E	0.031			E	0.13			E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	2.9			E	0.000056	J		E	0.16			E	0.047			E	0.18			E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	1.4			E	0.000045	U		E	0.014			E	0.022			E	0.08			E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	2.3			E	0.000045	U		E	0.08			E	0.053			E	0.18			E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	2.6			E	0.000063	J		E	0.068			E	0.035			E	0.14			E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	1.5			E	0.000045	U		E	0.31			E	0.017			E	0.089			E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	1.6				0.000045	U			0.33				0.019				0.1			
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.012	U			0.000045	U			0.000094	U			0.00012				0.002	U		
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	1.2			E	0.000045	U		E	0.013			E	0.017			E	0.087			E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	1.5			E	0.000045	U		E	0.054			E	0.021			E	0.11			E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	1.3			E	0.000045	U		E	0.059			E	0.031			E	0.14			E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.9			E	0.000045	U		E	0.23			E	0.011			E	0.087			E
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	1.5			E	0.000045	U		E	0.004			E	0.0069			E	0.049			E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.9			E	0.000045	U		E	0.0062			E	0.0031			E	0.03			E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.22			E	0.000045	U		E	0.0066			E	0.00052		J+	S	0.013			E

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	Lab Q	Val Q	Status	AlTR (mg/L)	Lab Q	Val Q	Status	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.00016	U		E	0.063			E	0.0032			E	0.000042	J,B	UJ	S	0.0066			E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.00016	U			0.06				0.0032				0.000067	J,B	UJ		0.0067			
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	J,B	UJ		0.0005	U		
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	0.00042	J		E	1.6			E	0.0092			E	0.00033			E	0.06			E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	0.00039	J		E	2			E	0.0092			E	0.00042			E	0.068			E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	0.0004	J		E	1.6			E	0.0073			E	0.00049			E	0.05			E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.00016	U		E	0.51			E	0.0048			E	0.00013	B		E	0.022			E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	0.00022	J		E	1			E	0.0066			E	0.00099			E	0.037			E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	0.0002	J		E	1			E	0.0061			E	0.00024			E	0.036			E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.00017	J		E	0.79			E	0.0048			E	0.00024			E	0.024			E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	0.00028	J		E	1.5			E	0.0074			E	0.00042			E	0.048			E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	0.00016	U		E	1			E	0.0044			E	0.000092			E	0.018			E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	0.00016	U		E	1.9			E	0.0054			E	0.00014			E	0.03			E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	0.00023	J		E	3.1			E	0.0055			E	0.00023			E	0.052			E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	0.00016	U		E	1.4			E	0.0035			E	0.00016			E	0.03			E
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	0.00022	J		E	1.5			E	0.0082			E	0.00031			E	0.053			E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	0.00028	J		E	1.8			E	0.0094			E	0.0004			E	0.062			E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	0.00022	J		E	1.5			E	0.0079			E	0.00045			E	0.046			E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	0.00037	J		E	2.4			E	0.011			E	0.00058			E	0.068			E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	0.00023	J		E	1.6			E	0.0082			E	0.00033			E	0.051			E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	0.00031	J		E	2.1			E	0.01			E	0.00049			E	0.065			E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	0.00043	J		E	2.2			E	0.0084			E	0.00046			E	0.055			E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	0.00023	J		E	1.6			E	0.0092			E	0.00039			E	0.052			E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	0.00028	J			1.8				0.0089				0.00038				0.05			
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.00016	U			0.008	U			0.000083	U			0.000017	J			0.0005	U		
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	0.00016	U		E	0.69			E	0.007			E	0.00031			E	0.043			E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	0.00024	J		E	1.4			E	0.0076			E	0.00037			E	0.047			E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	0.00016	U		E	0.93			E	0.0053			E	0.0003			E	0.032			E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	0.00016	U		E	0.77			E	0.0058			E	0.00021			E	0.028			E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	0.00016	U		E	0.8			E	0.0036			E	0.000081			E	0.014			E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	0.00016	U		E	1.5			E	0.0049			E	0.0001			E	0.023			E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.00016	U		E	0.8		J+	S	0.004			E	0.00017			E	0.034			E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	0.00016	U		E	1.3	R1,M1	J+	S	0.004			E	0.00022			E	0.04			E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.00016	U		E	0.63		J+	S	0.0059			E	0.00011			E	0.022			E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	0.00016	U		E	1.2		J+	S	0.0063			E	0.00012			E	0.027			E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	0.00016	U		E	1.3		J+	S	0.0056			E	0.00017			E	0.034			E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	0.00016	U		E	0.6		J+	S	0.0037			E	0.00015			E	0.016			E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.00016	U		E	0.47		J+	S	0.0062			E	0.000084			E	0.018			E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	0.00016	U		E	0.99		J+	S	0.0063			E	0.00011			E	0.027			E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	0.00016	U		E	0.56		J+	S	0.0053			E	0.0001			E	0.02			E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.00016	U		E	0.11		J+	S	0.0038			E	0.000068	J		E	0.0084			E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	0.00018	J		E	1.4			E	0.0074			E	0.00025			E	0.045		J	S
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	0.00018	J		E	1.1			E	0.0065			E	0.00028			E	0.038		J	S
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	0.00039	J		E	1.8			E	0.0071			E	0.00043			E	0.041		J	S
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.00016	U		E	0.17			E	0.004			E	0.000064	J		E	0.0074		J	S
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.00016	U			0.17				0.004				0.00007	J			0.006		J	
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	0.00025	J		E	1.7			E	0.0089			E	0.00045			E	0.059		J	S
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	0.00016	J		E	1.4			E	0.0093			E	0.00049			E	0.059		J	S
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	0.00062			E	2.9			E	0.0095			E	0.0006			E	0.068		J	S
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	0.00016	J		E	1.2			E	0.0075			E	0.00028			E	0.039		J	S
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	0.00019	J		E	0.95			E	0.0067			E	0.00027			E	0.039		J	S
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	0.00024	J		E	1.4			E	0.0074			E	0.00035			E	0.046		J	S
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	0.00021	J		E	1.1			E	0.0051			E	0.00027			E	0.031		J	S
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	0.0003	J		E	1.9			E	0.0079			E	0.00039			E	0.049		J	S

Table 11a. BPSOU 2021 Wet Weather Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	MoTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.21			E	0.000045	U		E	0.0062			E	0.0005		J+	S	0.015			E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.21				0.000045	U			0.0064				0.00052		J+		0.016			
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.012	U			0.000045	U			0.000094	U			0.00012				0.002	U		
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	2.1			E	0.000079	J		E	0.014			E	0.031			E	0.1			E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	2.6			E	0.00012	J		E	0.044			E	0.037			E	0.14			E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	2			E	0.00007	J		E	0.15			E	0.048			E	0.17			E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.71			E	0.000046	J		E	0.33			E	0.0088			E	0.05			E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	1.2			E	0.000055	J		E	0.012			E	0.017			E	0.088			E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	1.3			E	0.000062	J		E	0.028			E	0.018			E	0.094			E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.94			E	0.000045	U		E	0.11			E	0.019			E	0.1			E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	1.9			E	0.000064	J		E	0.13			E	0.031			E	0.14			E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	1.5			E	0.000045	U		E	0.004			E	0.0045			E	0.026			E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	2.3			E	0.000045	U		E	0.0028			E	0.01			E	0.051			E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	3			E	0.000045	U		E	0.0028			E	0.016			E	0.079			E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	1.6			E	0.000045	U		E	0.0037			E	0.0082			E	0.089			E
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	1.9			E	0.000045	U		E	0.19			E	0.022			E	0.093			E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	2.4			E	0.000045	U		E	0.19			E	0.035			E	0.13			E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	1.8			E	0.000045	U		E	0.19			E	0.039			E	0.14			E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	2.8			E	0.000045	U		E	0.21			E	0.052			E	0.19			E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	2			E	0.000045	U		E	0.18			E	0.025			E	0.094			E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	2.6			E	0.000045	U		E	0.21			E	0.04			E	0.15			E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	2.6			E	0.000045	U		E	0.074			E	0.057			E	0.18			E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	2.2			E	0.000045	U		E	0.42			E	0.029			E	0.12			E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	2.3				0.000045	U			0.42				0.029				0.11			
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.012	U			0.000045	U			0.000094	U			0.000083	J			0.002	U		
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	1.1			E	0.000045	U		E	0.13			E	0.021			E	0.1			E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	1.8			E	0.000045	U		E	0.17			E	0.027			E	0.13			E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	1.1			E	0.000045	U		E	0.048			E	0.027			E	0.12			E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	1.2			E	0.000045	U		E	0.35			E	0.015			E	0.084			E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	1			E	0.000045	U		E	0.0033			E	0.0031			E	0.021			E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	2			E	0.000045	U		E	0.003			E	0.0082			E	0.039			E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.95		J+	S	0.000045	U		E	0.0017			E	0.01			E	0.052			E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	1.4	R1,M1	J+	S	0.000045	U		E	0.0022			E	0.012			E	0.08			E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.74		J+	S	0.000045	U		E	0.0039			E	0.0044			E	0.037			E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	1.3		J+	S	0.000045	U		E	0.0032			E	0.0067			E	0.039			E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	1.7		J+	S	0.000045	U		E	0.0026			E	0.01			E	0.057			E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	1.3		J+	S	0.000045	U		E	0.0058			E	0.0043			E	0.031			E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.66		J+	S	0.000045	U		E	0.0033			E	0.0044			E	0.029			E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	1.3		J+	S	0.000045	U		E	0.003			E	0.0078			E	0.043			E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	1.1		J+	S	0.000045	U		E	0.0048			E	0.005			E	0.034			E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.39		J+	S	0.000045	U		E	0.006			E	0.0011			E	0.018			E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	1.9			E	0.000045	U		E	0.16			E	0.019			E	0.077			E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	1.4			E	0.000045	U		E	0.15			E	0.022			E	0.085			E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	1.9			E	0.000045	U		E	0.18			E	0.05			E	0.16			E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.31			E	0.000045	U		E	0.4			E	0.0041			E	0.024			E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.3				0.000045	U			0.41				0.0042				0.027			
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.012	U			0.000045	U			0.000094	U			0.00009	J			0.002	U		
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	2.3			E	0.000045	U		E	0.18			E	0.029			E	0.11			E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	1.8			E	0.000045	U		E	0.21			E	0.035			E	0.14			E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	3.3			E	0.000045	U		E	0.076			E	0.071			E	0.23			E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	1.6			E	0.000045	U		E	0.51			E	0.02			E	0.086			E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	1.4			E	0.000045	U		E	0.14			E	0.017			E	0.077	B		E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	1.9			E	0.000053	J		E	0.14			E	0.026			E	0.12	B		E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	1.3			E	0.000045	U		E	0.094			E	0.024			E	0.11	B		E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	2.4			E	0.000045	U		E	0.2			E	0.032			E	0.13	B		E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AgDis (mg/L)	Lab Q	Val Q	Status	AlDis (mg/L)	Lab Q	Val Q	Status	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	0.000077	U		E	0.08			E	0.0025			E	0.00003	U		E	0.0057			E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	0.00012	J		E	0.022			E	0.0024			E	0.000042	J		E	0.0056			E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.000077	U		E	0.0071	U		E	0.0021			E	0.00003	U		E	0.0034			E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.000077	U		E	0.012	J		E	0.0021			E	0.00003	U		E	0.0036			E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	0.000077	U		E	0.0096	J		E	0.0042			E	0.000055	J		E	0.0053			E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	0.000077	U		E	0.008	J		E	0.0041			E	0.000053	J		E	0.0057			E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	0.000077	U		E	0.0083	J		E	0.0039			E	0.00005	J		E	0.0049			E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	0.000077	U		E	0.0089	J		E	0.0035			E	0.000083			E	0.0051			E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	0.000077	U			0.0087	J			0.0036				0.000077	J			0.005			
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	0.000077	U		E	0.01	J		E	0.004			E	0.000053	J		E	0.0051			E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	0.000077	U		E	0.0079	J		E	0.0041			E	0.000052	J		E	0.0066			E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	0.000077	U		E	0.011	J		E	0.0036			E	0.000051	J		E	0.0048			E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	0.000077	U		E	0.0088	J		E	0.0033			E	0.000077	J		E	0.0055			E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	0.000077	U		E	0.011	J		E	0.0032			E	0.000059	J		E	0.015			E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	0.000077	U		E	0.0081	J		E	0.0031			E	0.00009			E	0.0074			E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	0.000077	U		E	0.0072	J		E	0.0026			E	0.000077	J		E	0.0055			E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	0.000077	U		E	0.0086	J		E	0.0025			E	0.000055	J		E	0.0064			E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	0.000077	U		E	0.017	J		E	0.0024			E	0.00003	U		E	0.011			E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	0.000077	U		E	0.02			E	0.0023			E	0.00003	U		E	0.0056			E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	0.00011	J		E	0.014	J		E	0.0022			E	0.00003	U		E	0.0044			E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.000077	U		E	0.0097	J		E	0.0022			E	0.00003	U		E	0.0035			E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	0.00015	J		E	0.016	J		E	0.0044			E	0.000038	J		E	0.0053		J+	S
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	0.00017	J		E	1.2			E	0.0059			E	0.0001			E	0.02			E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	0.000077	U		E	0.035			E	0.0031			E	0.00003	U		E	0.0056		J+	S
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	0.000077	U		E	0.0092	J		E	0.0028			E	0.00003	U		E	0.0035		J+	S
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.000077	U		E	0.014	J		E	0.0053			E	0.00003	U		E	0.0051		J+	S
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	0.000077	U		E	0.016	J		E	0.0044			E	0.00003	U		E	0.005		J+	S
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	0.000077	U		E	0.019	J		E	0.0038			E	0.00003	U		E	0.0043		J+	S
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.000077	U		E	0.0083	J		E	0.0037			E	0.00003	U		E	0.0032		J+	S
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	0.000077	U		E	0.014	J		E	0.0039			E	0.00004	J		E	0.0046		J+	S
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.000077	U		E	0.0094	J		E	0.0032			E	0.000049	J		E	0.0029		J+	S
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.000077	U		E	0.0098	J		E	0.0031			E	0.000063	J		E	0.0043		J+	S
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	0.000077	U		E	0.0092	J		E	0.003			E	0.00005	J		E	0.0032		J+	S
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	0.000077	U		E	0.33			E	0.0053			E	0.000086			E	0.013		J+	S
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	0.000077	U		E	0.0096	J		E	0.0039			E	0.000049	J		E	0.0066		J+	S
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	0.000077	U		E	0.012	J		E	0.0037			E	0.000068	J		E	0.0049		J+	S
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	0.000077	U		E	0.0074	J		E	0.0033			E	0.000088			E	0.0062		J+	S
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	0.000077	U		E	0.0077	J		E	0.0034			E	0.00007	J		E	0.0058		J+	S
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	0.000077	U		E	0.0093	J		E	0.0031			E	0.000083			E	0.0052		J+	S
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	0.000077	U		E	0.0092	J,B		E	0.0028			E	0.00008			E	0.0065		J+	S
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	0.00009	J		E	0.008	J,B		E	0.0026			E	0.00007	J		E	0.0062		J+	S
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	0.000077	U			0.0093	J,B			0.0027				0.000065	J			0.0064		J+	
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.0015			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	0.000077	J		E	0.01	J		E	0.0024			E	0.000033	J		E	0.0042			E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	0.000077	U		E	0.01	J		E	0.0026			E	0.00003	U		E	0.0042			E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	0.000077	U		E	0.014	J		E	0.0025			E	0.00003	U		E	0.0046			E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	0.000077	U		E	0.011	J		E	0.0025			E	0.000031	J		E	0.0046			E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	0.000077	U			0.0097	J			0.0026				0.000031	J			0.0047			
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	0.000077	U		E	0.01	J		E	0.0036			E	0.000053	J		E	0.0077			E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	0.000077	U		E	0.01	J		E	0.0035			E	0.00008			E	0.0086			E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	0.000077	U		E	0.0086	J		E	0.0032			E	0.000079	J		E	0.0052			E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.000077	U		E	0.022			E	0.0032			E	0.000068	J		E	0.0093			E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	0.000077	U		E	0.011	J		E	0.0036			E	0.000056	J		E	0.0072			E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	0.000077	U		E	0.0088	J		E	0.0033			E	0.000094			E	0.0054			E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	0.000077	U		E	0.01	J		E	0.0031			E	0.00007	J		E	0.0037			E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.000077	U		E	0.0099	J		E	0.0032			E	0.000066	J		E	0.0037			E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	0.000077	U		E	0.012	J		E	0.003			E	0.000057	J		E	0.0088			E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.000077	U		E	0.01	J		E	0.0029			E	0.000094			E	0.0068			E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	0.000077	U		E	0.019	J		E	0.0029			E	0.000089			E	0.0051			E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	0.000077	U		E	0.012	J		E	0.0029			E	0.000068	J		E	0.0064			E
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	0.000077	U		E	0.02	J		E	0.0026			E	0.00003	U		E	0.0035			E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	0.000077	U		E	0.012	J		E	0.0025			E	0.00003	U		E	0.005			E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	0.00014	J		E	0.01	J		E	0.0024			E	0.00003	U		E	0.0047			E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	0.00016	J		E	0.077			E	0.0025			E	0.00005	J		E	0.0051			E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.000077	U		E	0.0073	J		E	0.0024			E	0.00003	U		E	0.0039			E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.000077	U		E	0.0091	J		E	0.0027			E	0.000036	J		E	0.0057			E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	0.000077	U		E	0.025			E	0.0025			E	0.00003	U		E	0.006			E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	0.000077	U		E	0.014	J		E	0.0023			E	0.00003	U		E	0.005			E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.000077	U		E	0.0078	J		E	0.0032			E	0.00003	U		E	0.0052			E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	MoDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	0.19			E	0.000045	U		E	0.0034			E	0.00049			E	0.0052			E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	0.19			E	0.000045	U		E	0.004			E	0.00054			E	0.0073			E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.21			E	0.000045	U		E	0.0042			E	0.00015			E	0.0039	J		E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.2			E	0.000045	U		E	0.0043			E	0.00015			E	0.0066			E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	0.017	J		E	0.000045	U		E	0.32			E	0.000056	J		E	0.019			E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	0.019	J		E	0.000045	U		E	0.27			E	0.000077	J		E	0.018			E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	0.023	J		E	0.000045	U		E	0.26			E	0.000094	J		E	0.019			E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	0.025	J		E	0.000045	U		E	0.23			E	0.00014			E	0.042			E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	0.029	J			0.000045	U			0.22				0.00014				0.042			
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.012	U			0.000045	U			0.000081	U			0.000043	U			0.0023	U		
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	0.019	J		E	0.000045	U		E	0.27			E	0.000087	J		E	0.017			E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	0.017	J		E	0.000045	U		E	0.27			E	0.00014			E	0.019			E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	0.027	J		E	0.000045	U		E	0.25			E	0.000081	J		E	0.021			E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	0.025	J		E	0.000045	U		E	0.19			E	0.000095	J		E	0.05			E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	0.028	J		E	0.000045	U		E	0.2			E	0.0006			E	0.034			E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	0.043	J		E	0.000045	U		E	0.15			E	0.00034			E	0.035			E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	0.021	J		E	0.000045	U		E	0.17			E	0.00024			E	0.035			E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	0.024	J		E	0.000045	U		E	0.16			E	0.00011			E	0.033			E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	0.17			E	0.000045	U		E	0.0033			E	0.00065			E	0.008			E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	0.16			E	0.000045	U		E	0.0032			E	0.00054			E	0.0064			E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	0.19			E	0.000045	U		E	0.0039			E	0.00031			E	0.0058			E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.21			E	0.000045	U		E	0.0044			E	0.00016			E	0.0067			E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	0.15			E	0.000045	U		E	0.0048			E	0.00041			E	0.0077			E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	1.6			E	0.000045	U		E	0.0062			E	0.006			E	0.15			E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	0.14			E	0.000045	U		E	0.004			E	0.00045			E	0.0093			E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	0.15			E	0.000045	U		E	0.0054			E	0.00016			E	0.036			E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.13			E	0.000045	U		E	0.0045			E	0.00036			E	0.0095			E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	0.12			E	0.000045	U		E	0.0042			E	0.00037			E	0.0092			E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	0.14			E	0.000045	U		E	0.0047			E	0.0003			E	0.0084			E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.16			E	0.000045	U		E	0.0053			E	0.00016			E	0.0094			E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	0.023	J		E	0.000045	U		E	0.31			E	0.00017			E	0.013			E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.024	J		E	0.000045	U		E	0.27			E	0.00008	J		E	0.019			E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.018	J		E	0.000045	U		E	0.29			E	0.000085	J		E	0.015			E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	0.012	U		E	0.000045	U		E	0.28			E	0.000073	J		E	0.019			E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	0.44			E	0.000045	U		E	0.33			E	0.0028			E	0.029			E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	0.022	J		E	0.000045	U		E	0.28			E	0.00016			E	0.016			E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	0.019	J		E	0.000045	U		E	0.28			E	0.000089	J		E	0.02			E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	0.023	J		E	0.000045	U		E	0.2			E	0.00015			E	0.027			E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	0.03	J		E	0.000045	U		E	0.21			E	0.00022			E	0.028			E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	0.031	J		E	0.000045	U		E	0.18			E	0.00017			E	0.03			E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	0.034	J,B		E	0.000045	U		E	0.16			E	0.0003			E	0.035			E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	0.019	J,B		E	0.000045	U		E	0.17			E	0.00013			E	0.046			E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	0.02	J,B			0.000045	U			0.17				0.00012				0.048			
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.014	J,B			0.000045	U			0.000081	U			0.000056	J			0.0023	U		
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	0.2			E	0.000045	U		E	0.0039			E	0.00028			E	0.0049	J		E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	0.2			E	0.000045	U		E	0.0042			E	0.00034			E	0.0044	J		E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	0.17			E	0.000045	U		E	0.0038			E	0.0004			E	0.0056			E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	0.14			E	0.000045	U		E	0.0033			E	0.00041			E	0.0075			E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	0.14				0.000045	U			0.0035				0.00042				0.007			
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.012	U			0.000045	U			0.000081	U			0.000043	U			0.0023	U		
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	0.043	J		E	0.000045	U		E	0.081			E	0.00018			E	0.012			E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	0.012	U		E	0.000045	U		E	0.23			E	0.00008	J		E	0.017			E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	0.012	U		E	0.000045	U		E	0.43			E	0.000043	U		E	0.015			E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.012	U		E	0.000045	U		E	0.45			E	0.00017			E	0.014			E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	0.045	J		E	0.000045	U		E	0.073			E	0.00019			E	0.012			E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	0.012	U		E	0.000045	U		E	0.32			E	0.000092	J		E	0.017			E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	0.012	U		E	0.000045	U		E	0.44			E	0.000057	J		E	0.013			E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.012	U		E	0.000045	U		E	0.43			E	0.000046	J		E	0.02			E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	0.055			E	0.000045	U		E	0.056			E	0.00038			E	0.028			E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.022	J		E	0.000045	U		E	0.22			E	0.00019			E	0.029			E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	0.028	J		E	0.000045	U		E	0.37			E	0.00018			E	0.023			E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	0.019	J		E	0.000045	U		E	0.36			E	0.0002			E	0.028			E
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	0.2			E	0.000045	U		E	0.0045			E	0.00047			E	0.0057			E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	0.19			E	0.000045	U		E	0.0041			E	0.00028			E	0.0048	J		E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	0.18			E	0.000045	U		E	0.0039			E	0.00036			E	0.0052			E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	0.25			E	0.000045	U		E	0.0039			E	0.0006			E	0.007			E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.12			E	0.000045	U		E	0.0045			E	0.00024			E	0.0046	J		E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.13			E	0.000045	U		E	0.0048			E	0.0003			E	0.0059			E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	0.1			E	0.000045	U		E	0.0042			E	0.00038			E	0.0068			E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	0.1			E	0.000045	U		E	0.0041			E	0.00041			E	0.0091			E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.12			E	0.000045	U		E	0.0049			E	0.00026			E	0.0072			E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AgDis (mg/L)	Lab Q	Val Q	Status	AlDis (mg/L)	Lab Q	Val Q	Status	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	0.000077	U		E	0.0081	J		E	0.0033			E	0.00003	U		E	0.0046			E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	0.000077	U		E	0.017	J		E	0.0029			E	0.00003	U		E	0.0058			E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	0.000077	U		E	0.0083	J		E	0.0028			E	0.00003	U		E	0.0041			E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	0.000077	U		E	0.009	J		E	0.0032			E	0.000038	J		E	0.0058			E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	0.000077	U		E	0.0071	U		E	0.003			E	0.000039	J		E	0.0052			E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.000077	U		E	0.014	J		E	0.0026			E	0.00003	U		E	0.0036			E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.000077	U		E	0.0096	J		E	0.0028			E	0.00003	U		E	0.0029			E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	0.000077	U		E	0.0079	J		E	0.0028			E	0.00003	U		E	0.0041			E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.000077	U		E	0.01	J		E	0.0028			E	0.00003	U		E	0.0035			E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	0.000077	U		E	0.0086	J		E	0.0029			E	0.000047	J		E	0.0043			E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	0.000077	U		E	0.0086	J		E	0.0029			E	0.000033	J		E	0.0044			E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	0.000077	U			0.0074	J			0.0029				0.00003	U			0.0043			
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.000077	U		E	0.011	J		E	0.0031			E	0.00005	J		E	0.0066			E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.000077	U		E	0.079			E	0.0031			E	0.00005	J		E	0.0076			E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	0.000077	U		E	0.011	J		E	0.0028			E	0.000037	J		E	0.0048			E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.000077	U		E	0.011	J		E	0.0027			E	0.00003	U		E	0.014			E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.00016	J		E	0.019	J		E	0.0028			E	0.000031	J		E	0.0054			E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.000077	U		E	0.0073	J		E	0.0032			E	0.00005	J		E	0.0052			E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	0.000077	U		E	0.022			E	0.003			E	0.000034	J		E	0.01			E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	0.000077	U		E	0.027			E	0.0025			E	0.000041	J		E	0.013			E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.000077	U		E	0.0094	J		E	0.0023			E	0.00005	J		E	0.0039			E
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.000077	U		E	0.012	J		E	0.0029			E	0.000056	J		E	0.0046			E
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	0.000077	U		E	0.011	J		E	0.003			E	0.000083			E	0.0053			E
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	0.000077	U		E	0.094			E	0.0035			E	0.00011			E	0.01			E
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.000077	U		E	0.011	J		E	0.0028			E	0.000059	J		E	0.0033			E
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.000077	U		E	0.01	J		E	0.0029			E	0.000076	J		E	0.0036			E
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	0.0001	J		E	0.0079	J		E	0.0032			E	0.00011			E	0.0057			E
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.000077	U		E	0.0098	J		E	0.0029			E	0.000067	J		E	0.0065			E
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.000077	U			0.011	J			0.003				0.00003	U			0.0065			
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.000077	U		E	0.016	J		E	0.0021			E	0.000062	J		E	0.0043			E
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.000077	U		E	0.02	J		E	0.0023			E	0.000062	J		E	0.0047			E
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	0.000077	U		E	0.065			E	0.0028			E	0.000094			E	0.0072			E
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.000077	U		E	0.014	J		E	0.0022			E	0.000046	J		E	0.0047			E
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.000077	U		E	0.01	J		E	0.0026			E	0.00003	U		E	0.0065			E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.000077	U		E	0.0071	U		E	0.003			E	0.00003	U		E	0.0056			E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.000077	U		E	0.01	J		E	0.0029			E	0.000037	J		E	0.0071			E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	0.000077	U		E	0.018	J		E	0.0025			E	0.00005	J		E	0.012			E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.000077	U		E	0.085			E	0.0033			E	0.000031	J		E	0.0067			E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	0.000077	U		E	0.038			E	0.0034			E	0.000035	J		E	0.0098			E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	0.00008	J		E	1.8			E	0.0054			E	0.0001			E	0.032			E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.000077	U		E	0.0071	U		E	0.0023			E	0.00003	U		E	0.003			E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.000077	U		E	0.0096	J		E	0.0036			E	0.00003	U		E	0.0064			E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	0.000077	U		E	0.016	J		E	0.004			E	0.00003	U		E	0.0091			E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.000077	U		E	0.012	J		E	0.0032			E	0.00003	U		E	0.013			E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.000077	U		E	0.0071	U		E	0.0028			E	0.00003	U		E	0.0024			E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.000077	U		E	0.042			E	0.0025			E	0.000032	J		E	0.0039			E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.000077	U		E	0.023			E	0.0025			E	0.00003	U		E	0.0022			E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.00016	U		E	0.15			E	0.0031			E	0.00005	J		E	0.0058			E
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	0.000077	U		E	0.012	J		E	0.0031			E	0.00011			E	0.0063			E
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	0.000077	U		E	0.013	J		E	0.0025			E	0.000046	J		E	0.0033			E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.000077	U		E	0.015	J		E	0.0027			E	0.000058	J		E	0.0038			E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	0.000077	U		E	0.01	J		E	0.0032			E	0.0001			E	0.0049			E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	0.000077	U		E	0.012	J		E	0.0028			E	0.000075	J		E	0.0066			E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.000077	U		E	0.015	J		E	0.0023			E	0.00006	J		E	0.0044			E
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.000077	U		E	0.014	J		E	0.0024			E	0.000058	J		E	0.0043			E
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.000077	U		E	0.016	J		E	0.0025			E	0.000085			E	0.0049			E
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.000077	U		E	0.012	J		E	0.0028			E	0.00009			E	0.0064			E
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.000077	U			0.013	J			0.0026				0.000068	J			0.0058			
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00047	J		
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	0.000077	U		E	0.008	J		E	0.0039			E	0.00003	U		E	0.0079			E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	0.000077	U		E	0.067			E	0.0036			E	0.00003	U		E	0.01			E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	0.000077	U		E	0.026			E	0.0038			E	0.000048	J		E	0.016			E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	0.000077	U		E	0.33			E	0.0053			E	0.00006	J		E	0.022			E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	0.000077	U		E	0.0085	J		E	0.0044			E	0.000056	J		E	0.0054			E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	0.000077	U		E	0.0079	J		E	0.0045			E	0.000069	J		E	0.0039			E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	0.000077	U		E	0.039			E	0.0058			E	0.00015			E	0.0063			E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	0.000077	U		E	0.016	J		E	0.0079			E	0.00003	U		E	0.0038			E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	0.000077	U		E	0.0071	U		E	0.0045			E	0.000046	J		E	0.0033			E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	0.000077	U		E	0.0071	U		E	0.0049			E	0.0001			E	0.0048			E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	0.000077	U		E	0.016	J		E	0.007			E	0.0001			E	0.0054			E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	MoDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	0.12			E	0.000045	U		E	0.0051			E	0.00026			E	0.0073			E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	0.096			E	0.000045	U		E	0.0042			E	0.00039			E	0.0081			E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	0.12			E	0.000045	U		E	0.0056			E	0.00034			E	0.0069			E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	0.074			E	0.000045	U		E	0.057			E	0.00028			E	0.0095			E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	0.014	J		E	0.000045	U		E	0.26			E	0.000074	J		E	0.014			E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.012	U		E	0.000045	U		E	0.45			E	0.000043	U		E	0.012			E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.014	J		E	0.000045	U		E	0.45			E	0.000045	J		E	0.01			E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	0.016	J		E	0.000045	U		E	0.45			E	0.000045	J		E	0.015			E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.012	J		E	0.000045	U		E	0.44			E	0.000074	J		E	0.011			E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	0.012	U		E	0.000045	U		E	0.43			E	0.000053	J		E	0.016			E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	0.016	J		E	0.000045	U		E	0.45			E	0.000053	J		E	0.015			E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	0.012	U			0.000045	U			0.44				0.000049	J			0.015			
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.012	U			0.000045	U			0.000089	J			0.000043	U			0.0023	U		
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.061			E	0.000045	U		E	0.079			E	0.0003			E	0.026			E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.13			E	0.000045	U		E	0.15			E	0.00076			E	0.032			E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	0.017	J		E	0.000045	U		E	0.32			E	0.00012			E	0.025			E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.017	J		E	0.000045	U		E	0.35			E	0.00052			E	0.027			E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.053			E	0.000045	U		E	0.0048			E	0.00012			E	0.0097			E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.038	J		E	0.000045	U		E	0.0045			E	0.000078	J		E	0.0045	J		E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	0.06			E	0.000045	U		E	0.0041			E	0.00021			E	0.0094			E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	0.052			E	0.000045	U		E	0.0038			E	0.0002			E	0.016			E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.012	U		E	0.000045	U		E	0.31			E	0.000046	J		E	0.017			E
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.012	U		E	0.000045	U		E	0.36			E	0.000092	J		E	0.017			E
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	0.012	J		E	0.000045	U		E	0.34			E	0.00011			E	0.027			E
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	0.11			E	0.000045	U		E	0.34			E	0.0013			E	0.035			E
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.014	J		E	0.000045	U		E	0.37			E	0.000048	J		E	0.018			E
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.012	U		E	0.000045	U		E	0.39			E	0.000057	J		E	0.019			E
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	0.013	J		E	0.000045	U		E	0.32			E	0.00012			E	0.034			E
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.012	U		E	0.000045	U		E	0.43			E	0.00005	J		E	0.016			E
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.012	U			0.000045	U			0.46				0.000046	J			0.017			
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.012	U			0.000045	U			0.000081	U			0.000043	U			0.0023	U		
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.016	J		E	0.000045	U		E	0.22			E	0.00026			E	0.037			E
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.024	J		E	0.000045	U		E	0.25			E	0.0004			E	0.043			E
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	0.095			E	0.000045	U		E	0.2			E	0.0014			E	0.053			E
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.015	J		E	0.000045	U		E	0.32			E	0.00013			E	0.031			E
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.055			E	0.000045	U		E	0.0046			E	0.00011			E	0.0075			E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.038	J		E	0.000045	U		E	0.0049			E	0.000091	J		E	0.0053			E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.034	J		E	0.000045	U		E	0.0042			E	0.00011			E	0.0066			E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	0.041	J		E	0.000045	U		E	0.0037			E	0.00017			E	0.012			E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.16			E	0.000045	U		E	0.0054			E	0.00051			E	0.01			E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	0.059			E	0.000045	U		E	0.0052			E	0.00022			E	0.016			E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	2.1			E	0.000045	U		E	0.0052			E	0.0071			E	0.053			E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.017	J		E	0.000045	U		E	0.006			E	0.000043	U		E	0.0041	J		E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.055			E	0.000045	U		E	0.0053			E	0.00014			E	0.0096			E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	0.065			E	0.000045	U		E	0.0051			E	0.0002			E	0.012			E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.051			E	0.000045	U		E	0.0051			E	0.0003			E	0.013			E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.025	J		E	0.000045	U		E	0.0059			E	0.000043	U		E	0.0041	J		E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.13			E	0.000045	U		E	0.41			E	0.00022			E	0.01			E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.012	U		E	0.000045	U		E	0.42			E	0.000043	U		E	0.0096			E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.17			E	0.000045	U		E	0.43	P6		E	0.0021			E	0.026			E
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	0.024	J		E	0.000045	U		E	0.39			E	0.0003			E	0.039			E
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	0.012	U		E	0.000045	U		E	0.37			E	0.000043	U		E	0.015			E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.012	U		E	0.000045	U		E	0.44			E	0.000043	U		E	0.015			E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	0.012	J		E	0.000045	U		E	0.35			E	0.00012			E	0.038			E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	0.012	J		E	0.000045	U		E	0.49			E	0.000043	U		E	0.035			E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.019	J		E	0.000045	U		E	0.25			E	0.00022			E	0.038			E
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.017	J		E	0.000045	U		E	0.25			E	0.00025			E	0.039			E
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.02	J		E	0.000045	U		E	0.22			E	0.00043			E	0.049			E
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.02	J		E	0.000045	U		E	0.28			E	0.00037			E	0.043			E
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.021	J			0.000045	U			0.26				0.00036				0.04			
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.012	U			0.000045	U			0.000081	U			0.000043	U			0.0023	U		
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	0.033	J		E	0.000045	U		E	0.0047			E	0.00012			E	0.0091			E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	0.1			E	0.000045	U		E	0.005			E	0.00038			E	0.0092			E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	0.084			E	0.000045	U		E	0.0042			E	0.00032			E	0.024			E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	0.59			E	0.000045	U		E	0.0047			E	0.0015			E	0.054			E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	0.028	J		E	0.000045	U		E	0.18			E	0.00023			E	0.024			E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	0.013	J		E	0.000045	U		E	0.32			E	0.00018			E	0.028			E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	0.052			E	0.000045	U		E	0.2			E	0.0013			E	0.041			E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	0.1			E	0.000045	U		E	0.14			E	0.00083			E	0.015			E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	0.014	J		E	0.000045	U		E	0.22			E	0.00014			E	0.02			E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	0.012	U		E	0.000045	U		E	0.28			E	0.00023			E	0.031			E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	0.031	J		E	0.000045	U		E	0.14			E	0.00096			E	0.036			E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AgDis (mg/L)	Lab Q	Val Q	Status	AlDis (mg/L)	Lab Q	Val Q	Status	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	0.000077	U		E	0.014	J		E	0.0037			E	0.00003	U		E	0.0047			E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	0.000077	U			0.0071	U			0.0036				0.00003	U			0.0051			
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.000077	U			0.0071	U			0.00014	U			0.00003	U			0.00043	U		
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.000077	U		E	0.011	J		E	0.0033			E	0.000059	J		E	0.0035			E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	0.000077	U		E	0.011	J		E	0.003			E	0.00014			E	0.0062			E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	0.000077	U		E	0.011	J		E	0.0046			E	0.00031			E	0.0067			E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	0.000077	U		E	0.0083	J		E	0.0029			E	0.000074	J		E	0.0071			E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.000077	U		E	0.01	J		E	0.004			E	0.00003	U		E	0.0071			E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	0.000077	U		E	0.011	J		E	0.0038			E	0.000031	J		E	0.0089			E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	0.00016	U		E	0.043			E	0.0043			E	0.000045	J		E	0.012			E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	0.0002	J		E	0.031			E	0.0041			E	0.00006	J		E	0.013			E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	0.00016	U			0.031				0.0042				0.000042	J			0.013			
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	0.00016	U		E	0.008	U		E	0.004			E	0.000029	J		E	0.0089			E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	0.00016	U		E	0.015	J		E	0.0041			E	0.00005	J		E	0.014			E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	0.00016	U		E	0.031			E	0.005			E	0.00006	J		E	0.015			E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	0.00016	U		E	0.082			E	0.0026			E	0.000018	J		E	0.0051			E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	0.00016	U		E	0.024			E	0.0043			E	0.000056	J		E	0.011			E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.00016	U		E	0.008	U		E	0.0032			E	0.000016	U		E	0.0021			E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.00016	U		E	0.2			E	0.0052			E	0.000051	J		E	0.0071			E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.00016	U		E	0.008	U		E	0.0038			E	0.000016	U		E	0.0018			E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	0.00016	U		E	0.017	J		E	0.0035			E	0.000065	J		E	0.0057			E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	0.00016	U		E	0.008	U		E	0.0036			E	0.00003	J		E	0.0017			E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	0.00016	U		E	0.008	U		E	0.0045			E	0.000089			E	0.0038			E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	0.00016	U		E	0.039			E	0.013			E	0.00011			E	0.0033			E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	0.00016	U		E	0.0095	J		E	0.0046			E	0.000071	J		E	0.0036			E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	0.00016	U		E	0.008	U		E	0.0048			E	0.00018			E	0.0048			E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	0.00016	U		E	0.28			E	0.0067			E	0.00024			E	0.011			E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	0.00016	U		E	0.008	U		E	0.0039			E	0.00014			E	0.0085			E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	0.00019	J		E	0.0071	U		E	0.0031			E	0.00011			E	0.0052			E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	0.000077	U		E	0.0071	U		E	0.0027			E	0.00011			E	0.0048			E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	0.000077	U		E	0.0071	U		E	0.0033			E	0.00023			E	0.0061			E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	0.000077	U		E	0.0071	U		E	0.0044			E	0.0002			E	0.0055			E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.00016	J		E	0.008	U		E	0.0022			E	0.000038	J		E	0.0046			E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.00016	U		E	0.008	U		E	0.0029			E	0.000032	J		E	0.0078			E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	0.00016	U		E	0.021			E	0.0029			E	0.000063	J		E	0.02			E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	0.00016	U		E	0.027			E	0.0029			E	0.000091			E	0.021			E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.00016	U		E	0.013	J		E	0.0043			E	0.00018			E	0.0063			E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	0.00016	U		E	0.0087	J		E	0.0068			E	0.00027			E	0.0082			E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	0.00016	U		E	0.011	J		E	0.0057			E	0.00014			E	0.008			E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	0.00016	U		E	0.014	J		E	0.0036			E	0.000099			E	0.0097			E
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.00016	U		E	0.008	U		E	0.0044			E	0.0002			E	0.0052			E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	0.00016	U		E	0.023			E	0.008			E	0.00029			E	0.012			E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	0.00016	U		E	0.01	J		E	0.004			E	0.00015			E	0.011			E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.00016	U		E	0.022			E	0.0033			E	0.00004	J		E	0.0033			E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.00016	U			0.021				0.0032				0.000033	J			0.0033			
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	0.00016	U		E	0.0097	J		E	0.0039			E	0.00027			E	0.0078			E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	0.00016	U		E	0.017	J		E	0.0067			E	0.00028			E	0.0086			E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	0.00016	U		E	0.013	J		E	0.0032			E	0.00015			E	0.011			E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.00016	U		E	0.022			E	0.0025			E	0.00003	J		E	0.0033			E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.00016	U		E	0.008	U		E	0.0021			E	0.000016	J		E	0.0048			E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.00016	U		E	0.008	U		E	0.0027			E	0.000034	J		E	0.0068			E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	0.00018	J		E	0.031			E	0.0037			E	0.000063	J		E	0.013			E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	0.00016	U		E	0.024			E	0.0033			E	0.000067	J		E	0.017			E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	0.00016	U			0.022				0.0034				0.000066	J			0.018			
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	0.00016	U		E	0.015	J		E	0.004			E	0.000042	J		E	0.0089			E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	0.00016	U		E	0.033			E	0.0045			E	0.000052	J		E	0.0088			E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	0.00016	U		E	0.014	J		E	0.0035			E	0.000023	J		E	0.0048			E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.00016	U		E	0.008	U		E	0.0022			E	0.000024	J		E	0.0028			E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.00016	U		E	0.008	U		E	0.0035			E	0.000025	J		E	0.0031			E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.00016	U		E	0.019	J		E	0.0033			E	0.000059	J		E	0.0045			E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.00016	U		E	0.008	U		E	0.0032			E	0.000028	J		E	0.0037			E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.00016	U		E	0.008	U		E	0.0039			E	0.000026	J		E	0.004			E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	0.00016	U		E	0.012	J		E	0.0037			E	0.0001			E	0.0035			E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	0.00016	U		E	0.044			E	0.0047			E	0.00024			E	0.0044			E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.00016	U		E	0.017	J		E	0.0031			E	0.000035	J		E	0.0035			E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	0.00016	U		E	0.022			E	0.003			E	0.000046	J		E	0.0034			E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	0.00016	U		E	0.0084	J		E	0.0048			E	0.00022			E	0.0052			E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	MoDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	0.016	J		E	0.000045	U		E	0.38			E	0.0001			E	0.02			E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	0.014	J			0.000045	U			0.37				0.0001				0.019			
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.012	U			0.000045	U			0.000081	U			0.000043	U			0.0023	U		
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.028	J		E	0.000045	U		E	0.16			E	0.0006			E	0.043			E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	0.021	J		E	0.000045	U		E	0.12			E	0.0012			E	0.057			E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	0.026	J		E	0.000045	U		E	0.054			E	0.0023			E	0.072			E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	0.014	J		E	0.000045	U		E	0.29			E	0.00018			E	0.037			E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.03	J		E	0.000045	U		E	0.0047			E	0.000079	J		E	0.006			E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	0.037	J		E	0.000045	U		E	0.0046			E	0.00015			E	0.0092			E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	0.07			E	0.000045	U		E	0.0048			E	0.00031			E	0.01			E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	0.12			E	0.000045	U		E	0.0041			E	0.00042			E	0.029			E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	0.12				0.000045	U			0.0042				0.00042				0.03			
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.012	U			0.000045	U			0.000094	U			0.000028	U			0.002	U		
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	0.029	J		E	0.000045	U		E	0.0061			E	0.00013			E	0.01			E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	0.044	J		E	0.000045	U		E	0.0057			E	0.00024			E	0.014			E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	0.12			E	0.000045	U		E	0.0052			E	0.00042			E	0.028			E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	0.18			E	0.000045	U		E	0.0062			E	0.00043			E	0.0068			E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	0.078			E	0.000045	U		E	0.0054			E	0.0004			E	0.025			E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.012	U		E	0.000045	U		E	0.0067			E	0.000028	U		E	0.004	J		E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.62			E	0.000045	U		E	0.0068			E	0.0021			E	0.013			E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.023	J		E	0.000045	U		E	0.0067			E	0.000045	J		E	0.003	J		E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	0.045	J		E	0.000045	U		E	0.18			E	0.00034			E	0.02			E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	0.012	U		E	0.000045	U		E	0.37			E	0.000067	J		E	0.018			E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	0.012	U		E	0.000045	U		E	0.32			E	0.00022			E	0.024			E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	0.51			E	0.000045	U		E	0.059			E	0.0051			E	0.018			E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	0.022	J		E	0.000045	U		E	0.19			E	0.00024			E	0.018			E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	0.012	U		E	0.000045	U		E	0.34			E	0.00013			E	0.028			E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	0.3			E	0.000045	U		E	0.21			E	0.0075			E	0.061			E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	0.012	U		E	0.000045	U		E	0.4			E	0.000048	J		E	0.025			E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	0.019	J		E	0.000045	U		E	0.13			E	0.00047			E	0.038			E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	0.017	J		E	0.000048	J		E	0.17			E	0.00067			E	0.044			E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	0.019	J		E	0.000045	U		E	0.077			E	0.0016			E	0.059			E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	0.03	J		E	0.000047	J		E	0.12			E	0.0015			E	0.049			E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.038	J		E	0.000045	U		E	0.0045			E	0.000044	J	UJ	S	0.0067			E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.041	J		E	0.000045	U		E	0.0047			E	0.000089	J	UJ	S	0.0095			E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	0.056			E	0.000045	U		E	0.0044			E	0.00025		J+	S	0.026			E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	0.08			E	0.000045	U		E	0.0054			E	0.00036		J+	S	0.042			E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.012	U		E	0.000045	U		E	0.36			E	0.00025		J+	S	0.041			E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	0.017	J		E	0.000045	U		E	0.19			E	0.0007			E	0.039			E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	0.025	J		E	0.000045	U		E	0.16			E	0.00073			E	0.027			E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	0.021	J		E	0.000045	U		E	0.31			E	0.00023		J+	S	0.02			E
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.012	U		E	0.000045	U		E	0.31			E	0.0002		J+	S	0.046			E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	0.16			E	0.000045	U		E	0.069			E	0.0038			E	0.65			E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	0.02	J		E	0.000045	U		E	0.19			E	0.00053			E	0.03			E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.012	U		E	0.000045	U		E	0.42			E	0.000065	J	UJ	S	0.023			E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.012	U			0.000045	U			0.42				0.000078	J	UJ		0.023			
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.012	U			0.000045	U			0.000094	U			0.000046	J			0.002	U		
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	0.016	J		E	0.000045	U		E	0.15			E	0.00078			E	0.061			E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	0.033	J		E	0.000045	U		E	0.046			E	0.0017			E	0.038			E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	0.021	J		E	0.000045	U		E	0.15			E	0.00063			E	0.045			E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.012	U		E	0.000045	U		E	0.22			E	0.00024		J+	S	0.036			E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.033	J		E	0.000045	U		E	0.0044			E	0.000098	J	UJ	S	0.0051			E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.037	J		E	0.000045	U		E	0.0049			E	0.00016		J+	S	0.0087			E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	0.06			E	0.000045	U		E	0.0043			E	0.00032		J+	S	0.012			E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	0.069			E	0.000045	U		E	0.0041			E	0.00047			E	0.022			E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	0.059				0.000045	U			0.0041				0.00048				0.023			
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.012	U			0.000045	U			0.000094	U			0.000039	J			0.002	U		
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	0.061			E	0.000045	U		E	0.0063			E	0.00038			E	0.015			E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	0.094			E	0.000045	U		E	0.0058			E	0.0006			E	0.019			E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	0.068			E	0.000045	U		E	0.0058			E	0.00041			E	0.014			E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.032	J		E	0.000045	U		E	0.0064			E	0.00008	J		E	0.017			E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.05			E	0.000045	U		E	0.0068			E	0.00011			E	0.0055			E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.039	J		E	0.000045	U		E	0.0068			E	0.00011			E	0.008			E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.041	J		E	0.000045	U		E	0.0067			E	0.00011			E	0.004	J		E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.034	J		E	0.000045	U		E	0.0074			E	0.000099	J		E	0.011			E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	0.026	J		E	0.000045	U		E	0.41			E	0.0003			E	0.02			E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	0.035	J		E	0.000045	U		E	0.37			E	0.0019			E	0.036			E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.012	U		E	0.000045	U		E	0.39			E	0.00027			E	0.0097			E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	0.012	U		E	0.000045	U		E	0.43			E	0.00026			E	0.013			E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	0.012	U		E	0.000045	U		E	0.35			E	0.00027			E	0.04			E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AgDis (mg/L)	Lab Q	Val Q	Status	AlDis (mg/L)	Lab Q	Val Q	Status	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	0.00016	U		E	0.026			E	0.0082			E	0.00016			E	0.011			E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	0.00016	U		E	0.012	J		E	0.004			E	0.00018			E	0.01			E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.00016	U		E	0.024			E	0.0032			E	0.000046	J		E	0.0058			E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	0.00016	U		E	0.013	J		E	0.0036			E	0.00026			E	0.007			E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	0.00016	U		E	0.01	J		E	0.006			E	0.00031			E	0.011			E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	0.00016	U		E	0.0099	J		E	0.0033			E	0.00018			E	0.012			E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.00016	U		E	0.016	J		E	0.0027			E	0.000088			E	0.016			E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	0.00016	U		E	0.038			E	0.0022			E	0.000046	J		E	0.014			E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.00016	U		E	0.008	U		E	0.002			E	0.000027	J		E	0.0036			E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.00016	U		E	0.008	U		E	0.002			E	0.000028	J		E	0.0047			E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.00016	U		E	0.008	U		E	0.0021			E	0.000039	J		E	0.0054			E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	0.00016	U		E	0.012	J		E	0.0038			E	0.000066	J		E	0.0075			E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	0.00016	U		E	0.011	J		E	0.0038			E	0.000066	J		E	0.0064			E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	0.00016	U		E	0.0094	J		E	0.003			E	0.00014			E	0.0049			E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	0.00016	U		E	0.01	J		E	0.0031			E	0.00012			E	0.0086			E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	0.00016	U		E	0.01	J		E	0.0037			E	0.000064	J		E	0.0062			E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	0.00016	U		E	0.0095	J		E	0.0039			E	0.000081			E	0.0057			E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	0.00016	U		E	0.016	J		E	0.0032			E	0.00013			E	0.0077			E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.00016	U		E	0.012	J		E	0.0027			E	0.000054	J		E	0.0033			E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.00016	U			0.013	J			0.0027				0.000057	J			0.0034			
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	0.00016	U		E	0.016	J		E	0.0031			E	0.000099			E	0.0061			E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	0.00016	U		E	0.015	J		E	0.0031			E	0.000096			E	0.0051			E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	0.00016	U		E	0.018	J		E	0.0025			E	0.00012			E	0.0069			E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.00016	U		E	0.018	J		E	0.0023			E	0.000063	J		E	0.0041			E
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	0.00016	U		E	0.027			E	0.0021			E	0.000031	J		E	0.01			E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	0.00016	U		E	0.018	J		E	0.002			E	0.000044	J		E	0.009			E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.00016	U		E	0.008	U		E	0.0018			E	0.000026	J		E	0.0032			E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.00016	U		E	0.0086	J		E	0.0021			E	0.000022	J		E	0.0048			E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	0.00016	U		E	0.016	J		E	0.0032			E	0.000028	J		E	0.0077			E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	0.00016	U		E	0.025			E	0.003			E	0.000037	J		E	0.0083			E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	0.00016	U		E	0.024			E	0.0025			E	0.000038	J		E	0.0062			E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.00016	U		E	0.008	U		E	0.0017			E	0.000018	J		E	0.0023			E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	0.00016	U		E	0.021			E	0.003			E	0.000038	J		E	0.0095			E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.00016	U		E	0.008	U		E	0.0024			E	0.000021	J		E	0.0029			E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.00016	U		E	0.008	U		E	0.0025			E	0.000033	J		E	0.0028			E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.00016	U		E	0.008	U		E	0.0025			E	0.00002	J		E	0.0036			E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	0.00016	U		E	0.0099	J		E	0.003			E	0.000055	J		E	0.0059			E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	0.00016	U		E	0.0084	J		E	0.0028			E	0.000069	J		E	0.005			E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	0.00016	U		E	0.0095	J		E	0.0024			E	0.00011			E	0.0046			E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	0.00016	U		E	0.021			E	0.0036			E	0.00011			E	0.0052			E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	0.00016	U			0.021				0.0036				0.00011				0.0051			
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	0.00016	U		E	0.011	J		E	0.0032			E	0.000092			E	0.012			E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	0.00016	U		E	0.013	J		E	0.0034			E	0.000073	J		E	0.0058			E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	0.00016	U		E	0.014	J		E	0.0027			E	0.00014			E	0.0068			E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.00016	U		E	0.013	J		E	0.0022			E	0.000095			E	0.0038			E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	0.00016	U		E	0.016	J		E	0.003			E	0.000081			E	0.0066			E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	0.00016	U		E	0.014	J		E	0.003			E	0.000094			E	0.0058			E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.00016	U		E	0.018	J		E	0.0024			E	0.00012			E	0.0059			E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	0.00016	U		E	0.013	J		E	0.0025			E	0.00013			E	0.0073			E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	0.00016	U		E	0.013	J		E	0.0039			E	0.000086			E	0.011			E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	0.00016	U		E	0.012	J		E	0.0037			E	0.000075	J		E	0.01			E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	0.00016	U		E	0.01	J		E	0.0031			E	0.00015			E	0.0069			E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	0.00016	U		E	0.012	J		E	0.0032			E	0.00013			E	0.009			E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	0.00016	U		E	0.01	J		E	0.0037			E	0.000071	J		E	0.0098			E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	0.00016	U		E	0.015	J		E	0.0031			E	0.00014			E	0.0092			E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	0.00016	U		E	0.014	J		E	0.0037			E	0.000084			E	0.011			E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	0.00016	U		E	0.0095	J		E	0.0027			E	0.000076	J		E	0.0042			E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	0.00016	U			0.0097	J			0.003				0.000079	J			0.0044			
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	0.00016	U		E	0.015	J		E	0.003			E	0.000072	J		E	0.0083			E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	0.00016	U		E	0.013	J		E	0.003			E	0.000087			E	0.0083			E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	0.00016	U		E	0.016	J		E	0.0026			E	0.00012			E	0.0076			E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.00016	U		E	0.015	J		E	0.0024			E	0.000066	J		E	0.0046			E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	MoDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	0.035	J		E	0.000045	U		E	0.057			E	0.0021			E	0.021			E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	0.017	J		E	0.000045	U		E	0.2			E	0.00054			E	0.034			E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.012	U		E	0.000045	U		E	0.47			E	0.00004	J		E	0.0077			E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	0.014	J		E	0.000045	U		E	0.18			E	0.00066			E	0.055			E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	0.023	J		E	0.000045	U		E	0.068			E	0.0013			E	0.042			E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	0.016	J		E	0.000045	U		E	0.14			E	0.00059			E	0.043			E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.012	U		E	0.000045	U		E	0.25			E	0.00078			E	0.041			E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	0.054			E	0.000045	U		E	0.0019			E	0.00048			E	0.0079			E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.036	J		E	0.000045	U		E	0.0045			E	0.000041	J		E	0.0036	J		E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.055			E	0.000045	U		E	0.0047			E	0.000072	J		E	0.0064			E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.04	J		E	0.000045	U		E	0.0045			E	0.0001			E	0.012			E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	0.057			E	0.000045	U		E	0.11			E	0.00033			E	0.015			E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	0.024	J		E	0.000045	U		E	0.13			E	0.00036			E	0.017			E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	0.013	J		E	0.000045	U		E	0.18			E	0.00032			E	0.028			E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	0.013	J		E	0.000045	U		E	0.18			E	0.00036			E	0.024			E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	0.026	J		E	0.000045	U		E	0.1			E	0.00029			E	0.016			E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	0.022	J		E	0.000045	U		E	0.2			E	0.00028			E	0.022			E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	0.022	J		E	0.000045	U		E	0.073			E	0.00061			E	0.027			E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.012	U		E	0.000045	U		E	0.31			E	0.000028	U		E	0.017			E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.012	U			0.000045	U			0.32				0.000033	J			0.017			
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.012	U			0.000045	U			0.000094	U			0.000028	U			0.002	U		
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	0.033	J		E	0.000045	U		E	0.071			E	0.00044			E	0.028			E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	0.034	J		E	0.000045	U		E	0.13			E	0.00045			E	0.038			E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	0.018	J		E	0.000045	U		E	0.042			E	0.00073			E	0.046			E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.013	J		E	0.000045	U		E	0.19			E	0.00017			E	0.031			E
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	0.044	J		E	0.000045	U		E	0.002			E	0.00028			E	0.0061			E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	0.041	J		E	0.000045	U		E	0.0031			E	0.00031			E	0.0085			E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.036	J		E	0.000045	U		E	0.0045			E	0.000053	J		E	0.0032	J		E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.051			E	0.000045	U		E	0.0046			E	0.000093	J		E	0.0083			E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	0.044	J		E	0.000045	U		E	0.0043			E	0.00023			E	0.0085			E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	0.059			E	0.000045	U		E	0.0031			E	0.00039			E	0.0088			E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	0.06			E	0.000045	U		E	0.0035			E	0.00038			E	0.01			E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.031	J		E	0.000045	U		E	0.0061			E	0.000049	J		E	0.0073			E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	0.059			E	0.000045	U		E	0.0036			E	0.00045			E	0.01			E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.038	J		E	0.000045	U		E	0.0058			E	0.000066	J		E	0.0079			E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.042	J		E	0.000045	U		E	0.0064			E	0.000057	J		E	0.0088			E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.025	J		E	0.000045	U		E	0.0066			E	0.000033	J		E	0.0078			E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	0.033	J		E	0.000045	U		E	0.082			E	0.00033			E	0.012			E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	0.019	J		E	0.000045	U		E	0.14			E	0.00031			E	0.014			E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	0.016	J		E	0.000045	U		E	0.19			E	0.00043			E	0.029			E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	0.068			E	0.000045	U		E	0.25			E	0.00075			E	0.043			E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	0.066				0.000045	U			0.25				0.00077				0.042			
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.012	U			0.000045	U			0.000094	U			0.000028	U			0.002	U		
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	0.031	J		E	0.000045	U		E	0.1			E	0.00053			E	0.019			E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	0.025	J		E	0.000045	U		E	0.15			E	0.00064			E	0.02			E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	0.021	J		E	0.000045	U		E	0.077			E	0.00064			E	0.028			E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.012	U		E	0.000045	U		E	0.32			E	0.000032	J		E	0.016			E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	0.028	J		E	0.000045	U		E	0.07			E	0.00044			E	0.029			E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	0.024	J		E	0.000045	U		E	0.084			E	0.00043			E	0.033			E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.017	J		E	0.000045	U		E	0.092			E	0.00055			E	0.044			E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	0.015	J		E	0.000045	U		E	0.11			E	0.00054			E	0.039			E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	0.064			E	0.000045	U		E	0.012			E	0.00057			E	0.014			E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	0.055			E	0.000045	U		E	0.028			E	0.00051			E	0.019			E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	0.03	J		E	0.000045	U		E	0.15			E	0.00048			E	0.03			E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	0.031	J		E	0.000045	U		E	0.16			E	0.00043			E	0.027			E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	0.055			E	0.000045	U		E	0.012			E	0.00051			E	0.016			E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	0.03	J		E	0.000045	U		E	0.074			E	0.00085			E	0.03			E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	0.058			E	0.000045	U		E	0.056			E	0.00054			E	0.021			E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	0.017	J		E	0.000045	U		E	0.27			E	0.000072	J		E	0.016			E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	0.021	J			0.000045	U			0.29				0.00008	J			0.017			
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.012	U			0.000045	U			0.000094	U			0.000028	U			0.002	U		
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	0.046	J		E	0.000045	U		E	0.011			E	0.00054			E	0.028			E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	0.037	J		E	0.000045	U		E	0.048			E	0.00049			E	0.032			E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	0.025	J		E	0.000045	U		E	0.052			E	0.00081			E	0.043			E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.019	J		E	0.000045	U		E	0.2			E	0.0002			E	0.031			E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AgDis (mg/L)	Lab Q	Val Q	Status	AlDis (mg/L)	Lab Q	Val Q	Status	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	0.00016	U		E	0.016	J		E	0.0032			E	0.000037	J		E	0.0065			E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.00016	U		E	0.008	U		E	0.0027			E	0.000024	J		E	0.0037			E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.00016	U		E	0.008	U		E	0.0027			E	0.000028	J		E	0.0033			E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.00016	U		E	0.008	U		E	0.0025			E	0.000026	J		E	0.0036			E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.00016	U			0.008	U			0.0026				0.000024	J			0.0038			
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	0.00019	J		E	0.017	J		E	0.0041			E	0.000088			E	0.014			E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	0.00016	U		E	0.021			E	0.0039			E	0.0001			E	0.014			E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	0.00016	U		E	0.015	J		E	0.0032			E	0.00022			E	0.011			E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.00016	U		E	0.018	J		E	0.0034			E	0.00012			E	0.0096			E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	0.00016	U		E	0.58			E	0.0059			E	0.00022			E	0.033			E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	0.00016	U		E	0.017	J		E	0.0035			E	0.000081			E	0.0097			E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.00016	U		E	0.016	J		E	0.003			E	0.00015			E	0.0072			E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	0.00016	U		E	0.017	J		E	0.0032			E	0.00013			E	0.0096			E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	0.00016	U		E	0.012	J		E	0.0031			E	0.000028	J		E	0.006			E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	0.00016	U		E	1.3			E	0.0047			E	0.0001			E	0.024			E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	0.00016	U		E	0.023			E	0.0022			E	0.00005	J		E	0.0093			E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	0.00016	U		E	0.71			E	0.0029			E	0.000081			E	0.018			E
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	0.00016	U		E	0.008	U		E	0.0037			E	0.000098			E	0.0078			E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	0.00016	U		E	0.027			E	0.004			E	0.000095			E	0.0078			E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	0.00016	U		E	0.0086	J		E	0.0036			E	0.00018			E	0.0065			E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	0.00016	U		E	0.0086	J		E	0.003			E	0.00015			E	0.008			E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	0.00025	J		E	1.6			E	0.0092			E	0.00033			E	0.057			E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	0.00016	U		E	0.033			E	0.0039			E	0.00012			E	0.0083			E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	0.00016	U		E	0.022			E	0.0033			E	0.00015			E	0.0071			E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	0.00016	U		E	0.011	J		E	0.003			E	0.00013			E	0.0062			E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	0.00016	U			0.011	J			0.0033				0.00016				0.0061			
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.00016	U			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	0.00016	U		E	0.01	J		E	0.003			E	0.00011			E	0.0085			E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	0.00016	U		E	0.02			E	0.0031			E	0.00013			E	0.0088			E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	0.00016	U		E	0.012	J		E	0.0025			E	0.00014			E	0.0087			E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	0.00016	U		E	0.013	J		E	0.0026			E	0.000091			E	0.0053			E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	0.00016	U		E	0.0088	J		E	0.0024			E	0.000019	J		E	0.0053			E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	0.00016	U		E	0.011	J		E	0.0026			E	0.000019	J		E	0.0057			E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.00016	U,L1		E	0.017	J		E	0.0023			E	0.000054	J		E	0.0076			E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	0.00016	U,L1		E	0.02			E	0.0021			E	0.000056	J		E	0.0094			E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.00016	U,L1		E	0.018	J		E	0.0054			E	0.000049	J		E	0.012			E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	0.00016	U,L1		E	0.023			E	0.005			E	0.000044	J		E	0.0097			E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	0.00016	U,L1		E	0.021			E	0.0035			E	0.000035	J		E	0.0091			E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	0.00016	U,L1		E	0.008	U		E	0.0021			E	0.000016	J		E	0.0025			E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.00016	U,L1		E	0.016	J		E	0.0056			E	0.000031	J		E	0.0081			E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	0.00016	U,L1		E	0.023			E	0.0042			E	0.000022	J		E	0.0081			E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	0.00016	U,L1		E	0.008	U		E	0.0031			E	0.000019	J		E	0.005			E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.00016	U,L1		E	0.008	U		E	0.0035			E	0.000028	J		E	0.0062			E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	0.00016	U,L1		E	0.015	J		E	0.0036			E	0.000058	J		E	0.0081			E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	0.00016	U,L1		E	0.024			E	0.0035			E	0.000076	J		E	0.0078			E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	0.00016	U,L1		E	0.012	J		E	0.0031			E	0.00014			E	0.0061			E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.00016	U,L1		E	0.017	J		E	0.003			E	0.000016	U		E	0.0017			E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.00016	U,L1			0.018	J			0.0031				0.000017	J			0.0018			
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.00016	U,L1			0.008	U			0.000083	U			0.000016	U			0.0005	U		
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	0.00016	U,L1		E	0.0097	J		E	0.0038			E	0.00011			E	0.0086			E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	0.00016	U,L1		E	0.012	J		E	0.0036			E	0.00011			E	0.0081			E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	0.00016	U,L1		E	0.033			E	0.0034			E	0.00017			E	0.01			E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	0.00016	U,L1		E	0.16			E	0.0034			E	0.000097			E	0.0094			E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	0.00016	U		E	0.049			E	0.0034			E	0.000095			E	0.0097			E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	0.00016	U		E	0.013	J		E	0.0031			E	0.0001			E	0.008			E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	0.00016	U		E	0.013	J		E	0.0027			E	0.00013			E	0.0081			E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	0.00026	J		E	1.8			E	0.0076			E	0.00034			E	0.047			E

Table 11b. BPSOU 2021 Wet Weather Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	MoDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	0.096			E	0.000045	U		E	0.0033			E	0.00035			E	0.012			E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.064			E	0.000045	U		E	0.0052			E	0.0001			E	0.0089			E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.062			E	0.000045	U		E	0.006			E	0.000071	J		E	0.0097			E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.049	J		E	0.000045	U		E	0.0056			E	0.000091	J		E	0.013			E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.054				0.000045	U			0.0055				0.000066	J			0.014			
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.012	U			0.000045	U			0.000094	U			0.000028	U			0.002	U		
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	0.076			E	0.000045	U		E	0.013			E	0.00084			E	0.021			E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	0.068			E	0.000045	U		E	0.042			E	0.00089			E	0.025			E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	0.033	J		E	0.000045	U		E	0.15			E	0.00096			E	0.04			E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.029	J		E	0.000045	U		E	0.35			E	0.00025			E	0.024			E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	0.81			E	0.000045	U		E	0.012			E	0.014			E	0.08			E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	0.045	J		E	0.000045	U		E	0.027			E	0.0006			E	0.036			E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.028	J		E	0.000045	U		E	0.11			E	0.00065			E	0.047			E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	0.03	J		E	0.000045	U		E	0.13			E	0.00063			E	0.044			E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	0.04	J		E	0.000045	U		E	0.0039			E	0.00015			E	0.0077			E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	1.7			E	0.000045	U		E	0.0025			E	0.0074			E	0.039			E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	0.032	J		E	0.000045	U		E	0.0018			E	0.00025			E	0.011			E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	0.82			E	0.000045	U		E	0.0039			E	0.0033			E	0.052			E
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	0.022	J		E	0.000045	U		E	0.17			E	0.00018			E	0.018			E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	0.059			E	0.000045	U		E	0.19			E	0.00066			E	0.021			E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	0.015	J		E	0.000045	U		E	0.2			E	0.00023			E	0.029			E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	0.014	J		E	0.000045	U		E	0.2			E	0.00023			E	0.032			E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	2.2			E	0.000045	U		E	0.17			E	0.027			E	0.1			E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	0.049	J		E	0.000045	U		E	0.2			E	0.00074			E	0.025			E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	0.017	J		E	0.000045	U		E	0.07			E	0.00051			E	0.023			E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	0.012	U		E	0.000045	U		E	0.4			E	0.000082	J		E	0.025			E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	0.012	U			0.000045	U			0.42				0.000065	J			0.024			
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.012	U			0.000045	U			0.000094	U			0.000028	U			0.002	U		
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	0.02	J		E	0.000045	U		E	0.13			E	0.00038			E	0.028			E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	0.031	J		E	0.000045	U		E	0.16			E	0.00049			E	0.039			E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	0.027	J		E	0.000045	U		E	0.044			E	0.00064			E	0.04			E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	0.012	U		E	0.000045	U		E	0.33			E	0.00012			E	0.028			E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	0.036	J		E	0.000045	U		E	0.0028			E	0.00014			E	0.0064			E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	0.034	J		E	0.000045	U		E	0.0027			E	0.00016			E	0.0063			E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.028	J		E	0.000045	U		E	0.0024			E	0.00018			E	0.019			E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	0.058			E	0.000045	U		E	0.0024			E	0.00028			E	0.017			E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.048	J		E	0.000045	U		E	0.0041			E	0.00026			E	0.018			E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	0.043	J		E	0.000045	U		E	0.0029			E	0.00024			E	0.012			E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	0.047	J		E	0.000045	U		E	0.0029			E	0.00028			E	0.017			E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	0.021	J		E	0.000045	U		E	0.0066			E	0.000051	J		E	0.0062			E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.054			E	0.000045	U		E	0.0036			E	0.00025			E	0.01			E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	0.06			E	0.000045	U		E	0.0028			E	0.0003			E	0.0094			E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	0.044	J		E	0.000045	U		E	0.005			E	0.00014			E	0.009			E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.044	J		E	0.000045	U		E	0.0068			E	0.000089	J		E	0.015			E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	0.032	J		E	0.000045	U		E	0.17			E	0.00032			E	0.018			E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	0.034	J		E	0.000045	U		E	0.15			E	0.00052			E	0.02			E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	0.012	U		E	0.000045	U		E	0.18			E	0.0004			E	0.037			E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.019	J		E	0.000045	U		E	0.42			E	0.00017			E	0.016			E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.022	J			0.000045	U			0.44				0.00018				0.015			
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.012	U			0.000045	U			0.000094	U			0.000028	U			0.002	U		
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	0.019	J		E	0.000045	U		E	0.19			E	0.00023			E	0.019			E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	0.015	J		E	0.000045	U		E	0.2			E	0.00021			E	0.026			E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	0.035	J		E	0.000045	U		E	0.077			E	0.001			E	0.029			E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	0.18			E	0.000045	U		E	0.48			E	0.0021			E	0.028			E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	0.074			E	0.000045	U		E	0.13			E	0.00082			E	0.029			E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	0.017	J		E	0.000045	U		E	0.14			E	0.0003			E	0.032			E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	0.017	J		E	0.000045	U		E	0.097			E	0.00046			E	0.041			E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	2.1			E	0.000045	U		E	0.21			E	0.03			E	0.14			E

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	Alk (mg CaCO3/L)	Lab Q	Val Q	Status	CaDis (mg/L)	Lab Q	Val Q	Status	DOC (mg/L)	Lab Q	Val Q	Status	Hard (mg/L)	Lab Q	Val Q	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	61.8			E	21.9			E	4.5		J+	S	78.2			E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	64.3			E	23	P6		E	5.1			E	84.1			E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	76.8			E	27.9			E	4.2		J+	S	98.9			E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	77.9			E	26.3			E	9.6			E	94			E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	66.4			E	190			E	3.9		J+	S	514			E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	63.8			E	165			E	4.2		J+	S	451			E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	61.2			E	152			E	4.3		J+	S	418			E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	69			E	143			E	10.2			E	399			E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	69				139				10.1				390			
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	2	U			0.015	U			0.47	J			0.054	U		
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	65.7			E	165	P6		E	3.9		J+	S	448			E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	60.5			E	163			E	4.1		J+	S	444			E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	63			E	152			E	4.1		J+	S	418			E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	72.9			E	129			E	16.7			E	365			E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	73.8			E	120			E	4.4		J+	S	337			E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	83.8			E	106			E	4		J+	S	308			E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	78.8			E	130			E	3.9		J+	S	364			E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	88.1			E	129			E	3.7		J+	S	363			E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	61.8			E	21.4			E	4.3		J+	S	76			E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	60.5			E	21.2			E	4.5		J+	S	75.8			E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	74.9			E	25.7	P6		E	4.2		J+	S	91.3			E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	76.5			E	28.5			E	4.3		J+	S	100			E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	76.8			E	28.3			E					104			E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	70.1			E	25.6			E					94.2			E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	69.1			E	24			E					90.8			E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	86.4			E	31.8			E					117			E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	81.7			E	29.3			E					106			E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	76.6			E	26.7			E					101			E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	87.4			E	30.4			E					115			E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	92.7			E	34.2			E					125			E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	58.8			E	158			E					427			E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	68.1			E	138			E					382			E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	70.5			E	182			E					490			E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	65.4			E	176			E					475			E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	62.9			E	207			E					552			E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	59			E	176			E					471			E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	63.9			E	178			E					483			E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	69.7			E	139			E					385			E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	72.2			E	121			E	4.3		J+	S	339			E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	79.1			E	131			E	4.2		J+	S	369			E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	79.6			E	123	M1		E	3.9		J+	S	346			E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	82			E	126			E	7.9			E	357			E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	82.2				119				8.3				340			
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	2	U			0.015	U			0.52	J			0.054	U		
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	66.9			E	25.1	P6		E					88.6			E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	69.6			E	26.8			E					94.4			E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	67.4			E	24.4			E					87.8			E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	66.5			E	22.4			E					81.8			E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	65.8				22.6								82.1			
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	1.8	U,H1	UJ		0.015	U							0.054	U		
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	75.2			E	81.3			E					241			E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	66.9			E	174			E					472			E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	63.4			E	282			E					744			E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	66.1			E	286			E					752			E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	73.8			E	75.6	P6		E					227			E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	63			E	220			E					587			E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	64.4			E	285			E					749			E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	66.4			E	279			E					734			E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	89.6			E	67.3			E					205			E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	79.1			E	164			E					447			E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	74.2			E	253			E					668			E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	79.1			E	236			E					628			E
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	66.4			E	27.2			E					96.6			E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	69.3			E	26.4			E					93.2			E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	65.5			E	25	P6		E					87.4			E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	66.9			E	25.3			E					88.8			E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	74.5			E	25.7			E					90.7			E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	72.9			E	28.3			E					98.7			E

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	MgDis (mg/L)	Lab Q	Val Q	Status	NH3-N (mg/L)	Lab Q	Val Q	Status	NO3/NO2-N (mg/L)	Lab Q	Val Q	Status	Total Phos (mg/L)	Lab Q	Val Q	Status	SO4 (mg/L)	Lab Q	Val Q	Status	TDS (mg/L)	Lab Q	Val Q	Status	TKN (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10562380	5.7			E	0.03	U		E	0.46	B		E	0.19			E	21.7		J+	S	133			E	0.48	U		E	60		J	S
10562380	6.5			E	0.03	U,M1		E	0.53	B		E	0.17			E	22.5	M1	J+	S	141			E	0.48	U		E	78		J	S
10562380	7.1			E	0.03	U		E	0.57	B,M1	J-	S	0.09	J		E	25.4		J+	S	154			E	0.48	U		E	5	J	J	S
10562380	6.9			E	0.03	U		E	0.6	B,M1	J-	S	0.078	J		E	30.5	M1	J	S	161			E	0.48	U		E	5	U	UJ	S
10562380	9.7			E	0.038	J		E	0.72	B		E	0.12			E	565	M1		E	926			E	0.48	U		E	22		J	S
10562380	9.4			E	0.031	J		E	0.66	B		E	0.17			E	473			E	810			E	0.48	U		E	34.1		J	S
10562380	9.4			E	0.038	J		E	0.64	B		E	0.21			E	483			E	788			E	0.5			E	57.2		J	S
10562380	10.4			E	0.03	U		E	0.67	B		E	0.23			E	415			E	722			E	0.91			E	40.3		J	S
10562380	10.3				0.03	U			0.66	B			0.24				397				719				0.89				52.5		J	
10562380	0.0039	U			0.03	U			0.078	U			0.05	U			3.1				11				0.48	U			5	U		
10562380	8.8			E	0.039	J		E	0.67	B		E	0.13			E	511			E	887			E	0.48	U		E	31.2		J	S
10562380	9.1			E	0.03	U		E	0.65	B		E	0.16			E	478			E	820			E	0.48	U		E	43.3		J	S
10562380	9.4			E	0.048	J		E	0.65	B		E	0.23			E	450			E	772			E	0.54			E	64.2		J	S
10562380	10.3			E	0.043	J		E	0.73	B		E	0.21			E	358			E	641			E	0.54			E	39.8		J	S
10562380	9.1			E	0.03	J		E	1			E	0.17			E	381			E	685			E	0.48	U		E	42.9		J	S
10562380	10.1			E	0.053	J		E	1.2			E	0.11			E	302			E	574			E	0.48	U		E	37.9		J	S
10562380	9.5			E	0.035	J		E	1.2			E	0.16			E	347			E	657			E	0.48	U		E	34.5		J	S
10562380	9.8			E	0.03	U		E	1.3			E	0.12			E	320			E	641			E	0.48	U		E	122		J	S
10562380	5.5			E	0.03	U		E	0.46	B	J-	S	0.16			E	25.2		J	S	128			E	0.48	U		E	37.7		J	S
10562380	5.6			E	0.04	J		E	0.44	B	J-	S	0.25			E	23		J	S	133			E	0.48	U		E	93.5		J	S
10562380	6.6			E	0.03	U		E	0.58	B	J-	S	0.11			E	28.4		J	S	162			E	0.48	U		E	14.7		J	S
10562380	7			E	0.03	U		E	0.57	B	J-	S	0.088	J		E	28.8		J	S	166			E	0.48	U		E	12.6	D6	J	S
10562380	8.1			E					0.64	M1	J-	S					30.8		J-	S	178			E					17.4			E
10562380	7.3			E					0.57		J-	S					24.9			E	165			E					57.3			E
10562380	7.5			E					0.57		J-	S					28.2			E	153			E					83.4			E
10562380	9.2			E					0.8		J-	S					29.1			E	197			E					12.8			E
10562380	8			E					0.55		J-	S					30.4			E	183			E					33			E
10562380	8.3			E					0.49		J-	S					32.5			E	175			E					52.7			E
10562380	9.5			E					0.63		J-	S					35.3			E	180			E					56			E
10562380	9.6			E					0.6		J-	S					36.2			E	218			E					14			E
10562380	7.8			E					0.58			E					451			E	828			E					47.6			E
10562380	9			E					0.61			E					416			E	784			E					27			E
10562380	8.9			E					0.68			E					454			E	831			E					24.2			E
10562380	8.4			E					0.66			E					450			E	836			E					47.7			E
10562380	8.4			E					0.55			E					480			E	927			E					33.1			E
10562380	7.5			E					0.54			E					440			E	806			E					53			E
10562380	9.2			E					0.6			E					396			E	776			E					63			E
10562380	9.2			E					0.62			E					310			E	666			E					41.9			E
10562380	8.9			E	0.04	J		E	1.1			E	0.24			E	315			E	686			E	1.1			E	42.1			E
10562380	10.2			E	0.03	U		E	1.1			E	0.16			E	275			E	653			E	1.4			E	35.9			E
10562380	9.5			E	0.037	J		E	1.3			E	0.12			E	274			E	630			E	0.73			E	27.4			E
10562380	10.2			E	0.06	J		E	1.2			E	0.087	J		E	251			E	616			E	0.48	U		E	18.8	D6		E
10562380	10.5				0.058	J			1.3				0.082	J			261				622				0.8				22.5			
10562380	0.0039	U			0.03	U			0.087	J,B			0.05	U			1.2	U			6	J			0.48	U			5	U		
10562853	6.3	M1	J+	S					0.39	B,M1	J-	S					33.3			E	178			E					21.3	D6	J	S
10562853	6.7		J+	S					0.37	B	J-	S					36.6			E	127			E					49.1		J	S
10562853	6.5		J+	S					0.38	B	J-	S					34.8			E	164			E					65.8		J	S
10562853	6.3		J+	S					0.33	B	J-	S					33.7			E	168			E					197		J	S
10562853	6.2		J+						0.32	B	J-						34.4				145								117		J	
10562853	0.0039	U							0.078	U							1.2	U			5	U							5	U		
10562853	9.2			E					0.7	B		E					206			E	435			E					13.3		J	S
10562853	9.5			E					0.67	B		E					368			E	724			E					15.1		J	S
10562853	9.4			E					0.69	B		E					715			E	1210			E					17.6		J	S
10562853	9.3			E					0.72	B		E					678			E	1130			E					7.7	J	J	S
10562853	9.4	P6		E					0.67	B		E					169			E	397			E					14.8		J	S
10562853	9.3			E					0.67	B		E					547			E	1000			E					25.9		J	S
10562853	8.8			E					0.73	B		E					722			E	1190			E					12.8		J	S
10562853	9.2			E					0.75	B		E					636			E	1170			E					10.3		J	S
10562853	9			E					1.1			E					112			E	339			E					8.8	J	J	S
10562853	9.1			E					0.94			E					380	M1		E	716			E					20		J	S
10562853	9			E					0.86			E					635			E	1110			E					12.3		J	S
10562853	9.3			E					0.81	B		E					595			E	1080			E					7.5	J	J	S
10562853	6.9		J+	S					0.4	B		E					35.4		J+	S	179			E					59.2		J	S
10562853	6.6		J+	S					0.41	B		E					33.1		J+	S	165			E					39.3		J	S
10562853	6.1			E					0.41	B		E					31.5	M1	J+	S	179	D6		E					27		J	S
10562853	6.2			E					0.4	B		E					31.1		J+	S	171			E					44.5	D6	J	S
10562853	6.4			E					0.67	B		E					33.1		J+	S	184			E					7.4	J		E
10562853	6.8			E					0.64	B		E					31.4		J+	S	181			E					9.9	J		E

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	Alk (mg CaCO3/L)	Lab Q	Val Q	Status	CaDis (mg/L)	Lab Q	Val Q	Status	DOC (mg/L)	Lab Q	Val Q	Status	Hard (mg/L)	Lab Q	Val Q	Status
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	66.1			E	24.4			E					86.7			E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	68.6			E	25			E					88.9			E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	78.7			E	29.3			E					103			E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	76.8			E	29.3			E					105			E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	70.1			E	25.7			E					90.9			E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	74.9			E	29.5			E					103			E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	74.5			E	55.5	P6		E					169			E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	64.2			E	159			E					428			E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	59.2			E	278			E					725			E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	61.7			E	279			E					729			E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	60.5			E	287			E					749			E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	63.1			E	251			E					658			E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	60.1			E	234			E					615			E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	61.7			E	249			E					654			E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	64.3	L5	J+		250								654			
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	1.8	U,H1	UJ		0.02	J							0.064	J		
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	87.6	L5	J+	S	73.1			E					219			E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	82.9	L5	J+	S	119			E					334			E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	72.9	L5	J+	S	210			E					561			E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	77	L5	J+	S	225			E					599			E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	83.1			E	28.8	P6		E	4.7		J+	S	104			E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	78.5			E	26.6			E	6.1			E	96.9			E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	69.5			E	24.2			E	8.8			E	90.1			E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	61.9			E	23.7			E	16.8			E	86.9			E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	62.3			E	196			E	4.7		J+	S	523			E
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	62.8			E	203			E	2.8		J+	S	547			E
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	51.3	H5		E	208			E	4.5		J+	S	557			E
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	51.7	H5		E	184			E	8.8			E	498			E
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	63.8	H5		E	228			E	2.6		J+	S	610			E
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	55.7	H5		E	221			E	2.9		J+	S	593			E
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	50.4			E	205			E	5.6		J+	S	552			E
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	57.6			E	238			E	5.9		J+	S	635			E
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	56.8				250				5.7		J+		665			
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	1.8	U			0.017	J			0.6	J			0.061	J		
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	88			E	151			E	3.6		J+	S	413			E
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	81.5			E	170			E	4		J+	S	461			E
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	76.6			E	138			E	6		J+	S	379			E
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	78.9			E	203			E	3.9		J+	S	543			E
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	83.4			E	25.3	P6		E	6.5			E	96.2			E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	81.4			E	27.2			E	5.2		J+	S	101			E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	74.9			E	26.7	P6		E	7.1			E	96.1			E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	64.8			E	23.3			E	11.7			E	85.6			E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	89			E	33.3			E					119			E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	80			E	29.9			E					109			E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	75.5			E	26.9			E					101			E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	103			E	38.9			E					138			E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	89.7			E	30.4			E					110			E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	81.2			E	30.1			E					109			E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	84.7			E	31.3			E					114			E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	100			E	37.2			E					131			E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	57.1	H5		E	263	P6		E					687			E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	60.5	H5		E	266			E					694			E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	49.1	H5		E	278	P6		E					723			E
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	55.9	H5		E	245			E					643			E
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	62.6	H5		E	241			E					633			E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	53.9	H5		E	267			E					696			E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	47.4	H5		E	225			E					590			E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	53.6	H5		E	308			E					803			E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	81.2	H5		E	162			E	4.6			E	440			E
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	79.5	H5		E	159			E	3.8			E	434			E
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	74.5	H5		E	142			E	5			E	389			E
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	72	H5		E	171			E	7.2			E	466			E
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	73.2	H5			163				7.3				445			
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	1.8	U			0.019	J			0.3	U			0.064	J		
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	82.2			E	31.4			E	9.1			E	111			E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	85.2			E	31.4			E	9.7			E	111			E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	81.1			E	26.3			E	22.2			E	93.3			E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	78			E	23			E	46			E	83.8			E

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	MgDis (mg/L)	Lab Q	Val Q	Status	NH3-N (mg/L)	Lab Q	Val Q	Status	NO3/NO2-N (mg/L)	Lab Q	Val Q	Status	Total Phos (mg/L)	Lab Q	Val Q	Status	SO4 (mg/L)	Lab Q	Val Q	Status	TDS (mg/L)	Lab Q	Val Q	Status	TKN (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10562853	6.2			E					0.57	B		E					31.3		J+	S	161			E					41.7			E
10562853	6.4			E					0.53	B		E					31.4		J+	S	172			E					80.5			E
10562853	7.2			E					0.55	B		E					32.9		J+	S	183			E					12.7			E
10562853	7.6			E					0.55	B		E					33.5		J+	S	183			E					21.5			E
10562853	6.5			E					0.5	B		E					31		J+	S	164			E					52.6			E
10562853	7.1			E					0.56	B		E					33.7		J+	S	187			E					26.8			E
10562853	7.3	P6	J-	S					0.53	B		E					64.5			E	221			E					15.3			E
10562853	7.6		J-	S					0.52	B		E					281			E	545			E					37.7			E
10562853	7.3		J-	S					0.55	B		E					799			E	1250			E					27			E
10562853	7.6		J-	S					0.41	B		E					719			E	1400			E					5	U		E
10562853	7.7		J-	S					0.6	B		E					718			E	1240			E					23.5			E
10562853	7.5		J-	S					0.66	B		E					664			E	1230			E					8.6	J		E
10562853	7.2		J-	S					0.62	B		E					538			E	1040			E					22.2			E
10562853	7.7		J-	S					0.61	B		E					544			E	1040			E					16.4			E
10562853	7.5		J-						0.61	B							586				1060								18.5			
10562853	0.0039	U							0.091	J,B							1.2	U			5	U							5	U		
10562853	9			E					1.1			E					188			E	438			E					9	J		E
10562853	8.9			E					1			E					346			E	582			E					16.8			E
10562853	8.8			E					0.81	B		E					596			E	960			E					29.3			E
10562853	8.9			E					0.81	B		E					625			E	1080			E					21.9			E
10565256	7.7			E	0.038	J		E	0.98			E	0.11			E	27.4			E	125	D6	J	S	0.48	U,M1		E	6.1	J		E
10565256	7.4			E	0.03	U		E	0.92			E	0.15			E	25.1		J+	S	145		J	S	0.63		J-	S	14.9			E
10565256	7.2			E	0.03	U		E	0.85			E	0.22			E	23.3		J+	S	121		J	S	0.79		J-	S	56			E
10565256	6.7			E	0.095	J		E	0.87			E	0.27			E	26.7		J+	S	141		J	S	1.6		J-	S	68			E
10565256	8.2			E	0.039	J		E	0.9			E	0.1		J	S	566			E	1000		J	S	0.6			E	9.4	J		E
10565256	9.5			E	0.03	U		E	1			E	0.11		J	S	565			E	895		J	S	0.8			E	12.1			E
10565256	9.2			E	0.061	J		E	0.94			E	0.12		J	S	545			E	934		J	S	0.66			E	32			E
10565256	9.7			E	0.04	J		E	0.86			E	0.25		J	S	536			E	852		J	S	1.5			E	54.6			E
10565256	10.2			E	0.03	U		E	1.1			E	0.087	J	J	S	526			E	910		J	S	0.48	U		E	16			E
10565256	9.9			E	0.03	U		E	1			E	0.08	J	J	S	575			E	1040		J	S	0.48	U		E	13.7			E
10565256	9.4			E	0.04	J		E	0.88	B		E	0.19		J	S	447			E	924		J	S	0.79			E	42.2			E
10565256	10			E	0.03	U		E	0.95			E	0.21		J	S	641			E	1070		J	S	0.88			E	19.6			E
10565256	9.7				0.031	J			0.96				0.4		J		643				1160		J		0.91				11.6			
10565256	0.0043	J			0.03	U			0.078	U			0.05	U			2.7				5	U			0.48	U			5	U		
10565256	8.8			E	0.03	U		E	0.72	B		E	0.056	J	J	S	386			E	700		J	S	0.48	U		E	10.8			E
10565256	9.1			E	0.03	U		E	0.66	B		E	0.052	J	J	S	412			E	748		J	S	0.48	J		E	13			E
10565256	8.2			E	0.033	J		E	0.63	B		E	0.13		J	S	313			E	648		J	S	0.92			E	22.8			E
10565256	8.9			E	0.03	U		E	0.76	B		E	0.065	J	J	S	537			E	948		J	S	0.6			E	10.3			E
10565256	8			E	0.03	U		E	0.97			E	0.1			E	27.8			E	157		J	S	1.1	M1	J-	S	5	U		E
10565256	8.1			E	0.03	U		E	0.93			E	0.14			E	25.9		J+	S	155		J	S	0.48	U	UJ	S	7.6	J		E
10565256	7.1			E	0.03	U		E	0.92			E	0.13			E	24.2		J+	S	134		J	S	0.74		J-	S	28.6			E
10565256	6.6			E	0.07	J		E	0.77	B		E	0.2			E	24.2		J+	S	135			E	1.2		J-	S	47.2	D6		E
10565256	8.7			E					1.1			E					28.2			E	176			E					12.9		J	S
10565256	8.3			E					0.98			E					27.2			E	179			E					16		J	S
10565256	8.2			E					0.9	B		E					28.3			E	167			E					46.2		J	S
10565256	9.8			E					1.2			E					31.9			E	196			E					24.6		J	S
10565256	8.2			E					0.98			E					29.5			E	177			E					8.3	J	J	S
10565256	8.2			E					0.87	B		E					27.5			E	105			E					20.3		J	S
10565256	8.7			E					0.91	B		E					32.1			E	167			E					26.5		J	S
10565256	9.2			E					1.2			E					32.4			E	207			E					12.2		J	S
10565256	7.3	M1	J+	S					0.88	B		E					33.2			E	1110			E					5	U	UJ	S
10565256	7.3		J+	S					0.9	B		E					30.6			E	945			E					5	U	UJ	S
10565256	7.2	M1	J+	S					0.7	B		E					34.4			E	1080			E					25.6		J	S
10565256	7.5		J+	S					0.44	B		E					21.5			E	762			E					82.5		J	S
10565256	7.7		J+	S					0.93			E					27.5			E	900			E					8.6	J	J	S
10565256	7.4		J+	S					0.84	B		E					30.3			E	1100			E					14.1		J	S
10565256	6.9		J+	S					0.77	B		E					25.7			E	924			E					68.4		J	S
10565256	8.1		J+	S					0.85	B		E					37.8			E	1170			E					16		J	S
10565256	8.8			E	0.03	U		E	0.72	B		E	0.089	J		E	400	P6		E	752			E	0.81			E	8.9	J	J	S
10565256	8.8			E	0.03	U		E	0.69	B		E	0.12			E	406	P6		E	702			E	0.71			E	12.6		J	S
10565256	8.6			E	0.03	U		E	0.64	B		E	0.1			E	390			E	632			E	0.52			E	20.7		J	S
10565256	9.3			E	0.03	U		E	0.69	B		E	0.16			E	443			E	796			E	1.2			E	32		J	S
10565256	8.8				0.03	U			0.69	B			0.1				410				810				1				68.6		J	
10565256	0.0041	J			0.03	U			0.1	J,B			0.05	U			1.2	U			5	U			0.48	U			5	U		
10568665	7.9			E	0.034	J		E	1.1			E	0.25			E	29.5			E	185		J	S	1.3			E	55.8			E
10568665	7.9			E	0.03	U		E	0.98			E	0.13			E	31.3			E	123		J	S	2.8			E	58.9			E
10568665	6.7			E	0.064	J		E	0.45	B		E	1.3			E	28.3			E	171		J	S	4.7			E	463			E
10568665	6.4			E	0.18			E	0.14	J,B		E	2.8			E	26		J+	S	208		J	S	7.9			E	1130			E

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	Alk (mg CaCO3/L)	Lab Q	Val Q	Status	CaDis (mg/L)	Lab Q	Val Q	Status	DOC (mg/L)	Lab Q	Val Q	Status	Hard (mg/L)	Lab Q	Val Q	Status
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	80.8			E	148			E	8.8			E	416			E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	75.5			E	226			E	4.1		J+	S	612			E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	66.9			E	149			E	10.6			E	416			E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	72.3			E	103			E	14.5			E	291			E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	85.7			E	171			E	3.4		J+	S	472			E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	75			E	201			E	5.1			E	550			E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	64.2			E	108			E	21.6			E	310			E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	77.5			E	262			E	4.9			E	695			E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	77.2				249				4.9				661			
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	1.8	U			0.026	J,B			0.48	J			0.084	J		
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	100			E	127			E	4		J+	S	358			E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	102			E	105			E	5.3			E	302			E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	94.6			E	60.7			E	9			E	188			E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	90			E	205	P6		E	2.4		J+	S	550			E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	86.2			E	34			E	6.6			E	119			E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	79			E	30.6			E	9.6			E	109			E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	78.1			E	29.6			E	11			E	106			E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	74.6			E	22.9			E	30.8			E	81			E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	74.7				22.3				31.7				80.2			
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	1.8	U			0.023	J			0.48	J			0.078	J		
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	85.9			E	30.6			E					111			E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	74.4			E	25.5			E					94.5			E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	66.9			E	21.7			E					80			E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	107			E	36			E					134			E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	75.7			E	25.3			E					93			E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	112			E	40.2			E					143			E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	114			E	43.8	P6		E					153			E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	109			E	42.2			E					147			E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	74.1			E	118			E					327			E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	73.7			E	231			E					608			E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	80			E	197			E					525			E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	134			E	36.7			E					121			E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	87.8			E	146			E					403			E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	74.9			E	225			E					596			E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	67			E	144			E					389			E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	77			E	259			E					681			E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	97			E	85.8	M1		E	6			E	254			E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	97			E	106			E	4.8		J+	S	303			E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	98.2			E	62.5			E	7.1			E	193			E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	89.9			E	79.1			E	9.1			E	231			E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	103			E	33.3	P6		E	4.3		J+	S	118			E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	90			E	32.3			E	11.8		J+	S	117			E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	84.6			E	26.2			E	38.1		J+	S	92.7			E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	97.7			E	30.7			E	36.9	M1	J+	S	109			E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	55			E	246			E	3.5			E	650			E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	45.3			E	139			E	6.4			E	384			E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	46.4			E	107			E	9.5			E	291			E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	52.6			E	181			E	14.1			E	481			E
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	55.8			E	216	P6		E	3.8			E	576			E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	42.8			E	58.8			E	8.5			E	170			E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	41.2			E	131			E	15.8			E	353			E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	54.4			E	250			E	23.7			E	654			E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	55				251				20.8				658			
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	1.8	U			0.039	J			0.36	J			0.11	J		
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	83.6			E	119			E	5.3			E	335			E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	65.4			E	44.9			E	6.9			E	136			E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	78.7			E	113			E	17.4			E	311			E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	86.7			E	157			E	4.1			E	426			E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	102			E	33			E	3.7			E	118			E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	96.9			E	33.8			E	11.5			E	123			E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	79.2			E	28.3			E	23.9			E	105			E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	79			E	24.5			E	16			E	88.2			E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	75.8				25				15.7				90.5			
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	1.8	U			0.022	J			0.69	J			0.073	J		
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	76.7			E	31			E					112			E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	67.5			E	27.3			E					99.2			E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	87.9			E	34.7			E					125			E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	109			E	37.9	P6		E					137			E

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	MgDis (mg/L)	Lab Q	Val Q	Status	NH3-N (mg/L)	Lab Q	Val Q	Status	NO3/NO2-N (mg/L)	Lab Q	Val Q	Status	Total Phos (mg/L)	Lab Q	Val Q	Status	SO4 (mg/L)	Lab Q	Val Q	Status	TDS (mg/L)	Lab Q	Val Q	Status	TKN (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10568665	11.1			E	0.043	J		E	1.1			E	0.27			E	298			E	664		J	S	1.1			E	71.6			E
10568665	11.2			E	0.03	U		E	1.1			E	0.2			E	504			E	789		J	S	0.9			E	81.9			E
10568665	10.9			E	0.033	J		E	0.89	B		E	0.58			E	312			E	625		J	S	2.3			E	288			E
10568665	8.2			E	0.08	J		E	0.55	B		E	1.4			E	295			E	508		J	S	6.1			E	807			E
10568665	11.1			E	0.03	U		E	1.2			E	0.14			E	338	M1	J+	S	704		J	S	0.62			E	62			E
10568665	11.6			E	0.03	U		E	1.1			E	0.21			E	418		J+	S	830		J	S	0.86			E	101			E
10568665	9.7			E	0.062	J		E	0.58	B		E	0.95			E	259		J+	S	496		J	S	3.1			E	339			E
10568665	9.9			E	0.05	J		E	1.1			E	0.72			E	542		J+	S	1060		J	S	2.9			E	249			E
10568665	9.5				0.039	J			1.1				0.69				566		J+		548		J		3				204			
10568665	0.0045	J			0.03	U			0.082	J,B			0.05	U			2.6				5	U			0.48	U			5	U		
10568665	9.8			E	0.03	U		E	0.89	B		E	0.081	J		E	262		J+	S	542		J	S	0.8			E	37.7			E
10568665	9.4			E	0.03	U		E	0.92			E	0.088	J		E	207		J+	S	534		J	S	0.77			E	57.2			E
10568665	8.8			E	0.03	U		E	0.69	B		E	0.5			E	142		J+	S	386		J	S	2.2			E	255			E
10568665	9.6			E	0.03	U		E	1.1			E	0.41			E	405	M1	J+	S	900		J	S	2	D6		E	122			E
10568665	8.3			E	0.03	U		E	1.1			E	0.12		J+	S	31.2			E	180			E	0.66		J	S	37.7			E
10568665	7.9			E	0.03	U		E	1.1			E	0.26		J+	S	27.4			E	174			E	1.2		J	S	96.8			E
10568665	7.8			E	0.03	U		E	0.98			E	0.29		J+	S	27.5			E	179			E	1.6		J	S	182			E
10568665	5.8			E	0.072	J		E	0.094	J,B		E	1.2		J+	S	27.7			E	158			E	5.3		J	S	984			E
10568665	6				0.071	J			0.1	J,B			1		J+		29.7				146				8.8		J		836			
10568665	0.0048	J,B			0.03	U			0.08	J,B			0.15				1.2	U			5	J			0.48	U			5	U		
10568665	8.5			E					1.1			E					32.1			E	189			E					67.4			E
10568665	7.5			E					1			E					30			E	165			E					147			E
10568665	6.3			E					0.43	B		E					27.5			E	155			E					204			E
10568665	10.8			E					1.5			E					35.7			E	209			E					208			E
10568665	7.2			E					0.24	B		E					32.4		J+	S	173			E					157			E
10568665	10.4			E					1.4			E					36.2	M1	J+	S	213			E					27.8	D6		E
10568665	10.6			E					1.3			E					36.6		J+	S	221			E					5	U		E
10568665	10.1			E					1.3			E					35.6		J+	S	223			E					11.9			E
10568665	8.1			E					1.1			E					336	M1	J+	S	662			E					110			E
10568665	7.5			E					0.94			E					576			E	1020			E					47.5			E
10568665	8.2			E					0.82			E					398			E	726			E					1180			E
10568665	7.1			E					0.12	J,B		E					205			E	460			E					1760			E
10568665	9.1			E					1.2			E					344	M1	J+	S	641			E					77.8			E
10568665	8.4			E					1			E					496			E	914			E					88.2			E
10568665	7.4			E					0.72	B		E					364		J+	S	643			E					465			E
10568665	8.4			E					1			E					557			E	1070			E					178			E
10568665	9.7			E	0.03	U		E	0.88			E	0.13		J+	S	239			E	525			E	0.82			E	38			E
10568665	9.4			E	0.03	U		E	0.9			E	0.093	J	UJ	S	301			E	631			E	0.89			E	43.7			E
10568665	8.9			E	0.03	U		E	0.83	B		E	0.28		J+	S	162			E	135		J	S	1.6			E	172			E
10568665	8			E	0.048	J		E	0.66	B		E	0.85		J+	S	234			E	511	D6	J	S	3.3			E	418			E
10572927	8.4			E	0.03	U		E	1.1			E	0.05	U		E	30.5			E	225	D6		E	0.7			E	8.3	J	J	S
10572927	8.7			E	0.067	J	UJ	S	1.1			E	0.083	J		E	29.1			E	206			E	0.84			E	49.6		J	S
10572927	6.6			E	0.17		J+	S	0.97			E	0.5			E	28.9			E	105			E	2.4			E	128		J	S
10572927	7.9			E	0.22		J+	S	1.1			E	0.86			E	33.1			E	262			E	5			E	231		J	S
10572927	8.6			E	0.036	J	UJ	S	0.77			E	0.05	U		E	645			E	1150			E	0.71		J+	S	24.9		J	S
10572927	8.8			E	0.11		J+	S	0.62			E	0.57			E	367			E	694			E	1.9		J+	S	198		J	S
10572927	5.6			E	0.16		J+	S	0.57			E	0.85			E	274			E	501			E	2.6		J+	S	271		J	S
10572927	6.9			E	0.03	U		E	0.78			E	0.17			E	528			E	987			E	1.5		J+	S	36.2		J	S
10572927	8.7			E	0.037	J	UJ	S	0.78			E	0.05	U		E	553	M1		E	989			E	0.48	U,M1		E	64.2	D6	J	S
10572927	5.7			E	0.16		J+	S	0.52			E	0.99			E	173			E	314			E	2.7		J+	S	372		J	S
10572927	6.1			E	0.07	J	UJ	S	0.71			E	0.26			E	319			E	615			E	1.9		J+	S	103		J	S
10572927	7.5			E	0.03	U		E	0.7			E	0.05	U		E	701			E	1200			E	0.48	U		E	6.6	J	J	S
10572927	7.4				0.03	U			0.83				0.05	U			651				1190				0.48	U			10.1		J	
10572927	0.0042	J,B			0.065	J			0.078	U			0.05	U			1.2	U			5	U			0.48	U			5	U		
10572927	9.2			E	0.041	J	UJ	S	1.4			E	0.14			E	302			E	620			E	0.75		J+	S	73.9		J	S
10572927	5.8			E	0.083	J	UJ	S	0.88			E	1			E	123			E	278			E	2.5		J+	S	386		J	S
10572927	7.2			E	0.03	U		E	1.3			E	0.17			E	296			E	454			E	1.9		J+	S	46.8		J	S
10572927	8.5			E	0.03	U		E	1.5			E	0.05	U		E	356			E	776			E	0.5	J	J+	S	5	U	UJ	S
10572927	8.7			E	0.03	U		E	1.2			E	0.05	U		E	32.5			E	211			E	0.48	U		E	5	U	UJ	S
10572927	9.3			E	0.03	U		E	1.1			E	0.068	J		E	33			E	214			E	0.48	U		E	8.3	J	J	S
10572927	8.3			E	0.03	U		E	1			E	0.24			E	29.4			E	198			E	1.7			E	94.9	D6	J	S
10572927	6.6			E	0.066	J		E	0.79			E	1.1			E	27.5			E	184			E	5.2			E	317		J	S
10572927	6.8				0.067	J			0.78				1.1				27.9				175				5.6				545		J	
10572927	0.004	J			0.03	U			0.078	U			0.05	U			1.2	U			5	U			0.48	U			5	U		
10572927	8.5			E					0.92			E					36.6			E	200			E					43.5		J	S
10572927	7.6			E					0.8			E					33.9			E	190			E					113		J	S
10572927	9.4			E					1			E					36.3			E	240			E					104		J	S
10572927	10.3			E					1.2			E					36.2			E	229			E					5	U	UJ	S

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	Alk (mg CaCO3/L)	Lab Q	Val Q	Status	CaDis (mg/L)	Lab Q	Val Q	Status	DOC (mg/L)	Lab Q	Val Q	Status	Hard (mg/L)	Lab Q	Val Q	Status
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	112			E	40.6			E					146			E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	110			E	40.4			E					146			E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	108			E	39.3			E					141			E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	108			E	39.5			E					145			E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	51.9			E	263			E					681			E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	44.8			E	275			E					705			E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	51.9			E	249			E					643			E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	55.2			E	254			E					657			E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	53.5			E	217			E					568			E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	42.1			E	46			E					131			E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	39.3			E	131			E					344			E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	52.1			E	290			E					747			E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	87.1			E	126	P6		E	5		J+	S	351			E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	67.2			E	63.1			E	7			E	186			E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	73.4			E	99.5			E	9.4			E	277			E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	81.2			E	158			E	17.1			E	427			E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	53.1			E	12			E					41.8			E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	101			E	36			E					127			E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	99.6			E	35.4			E					126			E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	100			E	34.1			E					123			E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	56.5			E	92.4			E					261			E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	57.8			E	109			E					300			E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	40.9			E	125			E					336			E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	49.3			E	126			E					341			E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	67.6			E	91.9			E					262			E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	50.1			E	153			E					411			E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	34.6			E	59.2			E					168			E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	59.7			E	210			E					558			E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	60.1				210								558			
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	1.8	U			0.018	U							0.06	U		
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	86.7			E	69.6	P6		E					207			E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	78.5			E	105			E					293			E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	81.4			E	48			E					147			E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	84.3			E	137			E					374			E
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	38.2			E	12.5			E					44.1			E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	78.6			E	22.9			E					81			E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	103			E	38.1			E					132			E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	102			E	36.6			E					128			E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	55.9			E	18.1	P6		E					68.5			E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	43.9			E	18.3			E					63			E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	52.3			E	22.2			E					78.6			E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	105			E	38.6			E					135			E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	50.4			E	23.2			E					81.6			E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	105			E	40.9			E					142			E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	111			E	41.2			E					145			E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	111			E	42.6			E					148			E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	59.4			E	67.8	P6		E					194			E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	63.9			E	106			E					288			E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	51.6			E	123			E					326			E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	51			E	169			E					448			E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	52.5				166								439			
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	1.8	U			0.04								0.13	J		
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	64.1			E	80.5			E					228			E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	47.7			E	101			E					273			E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	34.5			E	54.9			E					148			E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	57.2			E	199			E					521			E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	79.2			E	66.7			E					197			E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	82.5			E	75.8			E					220			E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	79.9			E	78.1			E					224			E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	80.9			E	87			E					247			E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	82			E	37.3	P6		E					125			E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	71.1			E	43.8			E					138			E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	53			E	121			E					328			E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	55.4			E	125			E					338			E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	82.7			E	39.5			E					132			E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	60.8			E	65.1			E					183			E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	41			E	61.1			E					178			E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	78			E	206			E					549			E

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	MgDis (mg/L)	Lab Q	Val Q	Status	NH3-N (mg/L)	Lab Q	Val Q	Status	NO3/NO2-N (mg/L)	Lab Q	Val Q	Status	Total Phos (mg/L)	Lab Q	Val Q	Status	SO4 (mg/L)	Lab Q	Val Q	Status	TDS (mg/L)	Lab Q	Val Q	Status	TKN (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10572927	10.8			E					1			E					39.1			E	244			E					5	U	UJ	S
10572927	10.9			E					1			E					38.7			E	251			E					5	U	UJ	S
10572927	10.5			E					1.1			E					36.1			E	235			E					5	U	UJ	S
10572927	11.3			E					1.1			E					36.3			E	244			E					5	U	UJ	S
10572927	6			E					0.68			E					605	P6		E	1220			E					29.2		J	S
10572927	4.6			E					0.66			E					527			E	1040			E					143		J	S
10572927	5.3			E					0.76			E					575			E	1140			E					27.4		J	S
10572927	5.3			E					0.64			E					553			E	1140			E					26.3		J	S
10572927	6.4			E					0.71			E					635			E	1100			E					42.3		J	S
10572927	4			E					0.45			E					93			E	188			E					205		J	S
10572927	4.2			E					0.61			E					303			E	647			E					74.2		J	S
10572927	5.9			E					0.73			E					634			E	1110			E					6.2	J	J	S
10572927	9			E	0.03	U		E	1.3			E	0.05	U		E	291			E	724			E	0.59			E	33.1		J	S
10572927	6.9			E	0.058	J		E	1			E	0.6			E	153			E	355			E	1.7			E	196		J	S
10572927	6.8			E	0.03	U		E	1.2			E	0.29			E	240			E	560			E	1.5			E	100	D6	J	S
10572927	8.2			E	0.03	U		E	1.4			E	0.05	U		E	404			E	754			E	1			E	24	D6	J	S
10574117	2.9			E					0.56			E					17.4			E	88	D6	J	S					197			E
10574117	9.1			E					1.2			E					32			E	199		J	S					5	U		E
10574117	9.2			E					1.3			E					33.4			E	203		J	S					5	U		E
10574117	9.2			E					1.2			E					33.7			E	156		J	S					8.1	J		E
10574117	7.3			E					0.84			E					186			E	394		J	S					38			E
10574117	7.1			E					0.8			E					262			E	290		J	S					55.7			E
10574117	6			E					0.67			E					296			E	530		J	S					35.5			E
10574117	6.3			E					0.77			E					325			E	590		J	S					50.9			E
10574117	8			E					1			E					185			E	408		J	S					51.4			E
10574117	7.2			E					0.66			E					341			E	609		J	S					87			E
10574117	5			E					0.6			E					146			E	292		J	S					58.3			E
10574117	8			E					0.96			E					508		J-	S	929		J	S					26.7			E
10574117	8.1								0.99								504		J-		925		J						25			
10574117	0.0034	U							0.078	U							1.6	J			5	U							5	U		
10574117	8			E					1.1			E					160	M1	J-	S	384		J	S					42.3	D6		E
10574117	7.6			E					1			E					223		J-	S	513		J	S					54.4			E
10574117	6.6			E					1.2			E					119		J-	S	314		J	S					34.7			E
10574117	8.1			E					1.4			E					347		J-	S	676		J	S					15.9			E
10574117	3.1			E					0.47			E					12.1			E	49		J	S					240			E
10574117	5.8			E					0.94			E					26.4			E	97		J	S					296			E
10574117	8.9		J-	S					1.3			E					35.6			E	100		J	S					5	U		E
10574117	8.9		J-	S					1			E					34.6			E	207	D6	J	S					9.1	J		E
10574117	5.7	M1	J-	S					0.66			E					30.3			E	93	D6	J	S					31			E
10574117	4.2		J-	S					0.53			E					21.1			E	67		J	S					61.7			E
10574117	5.6		J-	S					0.64			E					23.8			E	102		J	S					198			E
10574117	9.4		J-	S					1.4			E					37.9			E	128		J	S					7.3	J		E
10574117	5.7		J-	S					0.6			E					24.8			E	140		J	S					78.3			E
10574117	9.6		J-	S					1.4			E					39.3			E	224		J	S					8.1	J		E
10574117	10.3		J-	S					1.3			E					39.1			E	169		J	S					5	U		E
10574117	10.2		J-	S					1.3			E					39.1			E	216		J	S					5	U		E
10574117	6.1			E					0.82			E					146		J-	S	166		J	S					69.3			E
10574117	5.9			E					0.85			E					164			E	219		J	S					63			E
10574117	4.7			E					0.78			E					368			E	757		J	S					47.2			E
10574117	6.1			E					0.53			E					255			E	475		J	S					515			E
10574117	6								0.53								240				447		J						490			
10574117	0.0084	J							0.078	U							1.2	U			5	U							5	U		
10574117	6.5			E					0.96			E					192			E	386		J	S					58.3			E
10574117	4.8			E					0.62			E					268			E	486		J	S					95.7			E
10574117	2.8			E					0.44			E					167			E	87		J	S					61.3			E
10574117	5.7			E					0.96			E					461			E	922		J	S					12.4			E
10574117	7.4			E					1			E					152			E	370		J	S					29.7			E
10574117	7.4			E					1.1			E					182			E	436		J	S					40.2			E
10574117	7.1			E					1			E					212			E	468			E					27.4			E
10574117	7.1			E					1.2			E					232			E	485			E					43.5	D6		E
10575368	7.8	M1	J-	S					1.1			E					60.7	M1	J-	S	246			E					41.8	D6	J	S
10575368	6.9		J-	S					0.97			E					89.3		J-	S	284			E					47		J	S
10575368	6.6		J-	S					0.83			E					256		J-	S	556			E					41		J	S
10575368	6.1		J-	S					0.9			E					282		J-	S	611			E					96.1		J	S
10575368	8		J-	S					1.1			E					60.5		J-	S	245			E					39.4		J	S
10575368	5		J-	S					0.86			E					165			E	349			E					60.8		J	S
10575368	6.3		J-	S					0.75			E					187			E	351			E					59.7		J	S
10575368	8.2		J-	S					1.2			E					542			E	944			E					66.2		J	S

See Table A3 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	Alk (mg CaCO3/L)	Lab Q	Val Q	Status	CaDis (mg/L)	Lab Q	Val Q	Status	DOC (mg/L)	Lab Q	Val Q	Status	Hard (mg/L)	Lab Q	Val Q	Status
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	76.5				214								572			
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	1.8	U			0.026	J							0.077	J		
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	101			E	36.3			E					123			E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	86			E	55			E					164			E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	76.8			E	55			E					162			E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	93.8			E	155			E					418			E
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	69.2			E	22.8			E					78.6			E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	107			E	36.7			E					126			E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	112			E	39.1			E					134			E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	111			E	35.3			E					121			E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	112				36.8								127			
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	1.8	U			0.018	U							0.06	U		
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	85			E	35			E					119			E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	60.7			E	44.1			E					132			E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	42.2			E	98.1			E					263			E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	73.3			E	228			E					602			E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	103			E	39.3			E					138			E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	91.9			E	45.9			E					150			E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	82.1			E	90.4			E					259			E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	79.8			E	97.1			E					274			E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	59			E	26.6			E					93.3			E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	45.8			E	15.8	P6		E					56.5			E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	37			E	11.7			E					40.8			E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	61.4			E	24.3			E					87			E
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	50.6			E	123			E					331			E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	63.9			E	140			E					380			E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	47.5			E	141			E					378			E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	43.5			E	137			E					364			E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	59.2			E	134			E					365			E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	54.4			E	143			E					383			E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	41.4			E	61.5			E					174			E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	57.6			E	268	P6		E					699			E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	58				280								731			
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	2.2	J,B			0.018	U							0.06	U		
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	83			E	106			E					294			E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	80.6			E	124			E					339			E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	83.9			E	48.5			E					147			E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	82			E	229			E					604			E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	57.1			E	19.9			E					70.1			E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	52.7			E	18.6			E					65.3			E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	42.8			E	14.9			E					51.6			E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	46.8			E	17.7			E					61.6			E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	55.1			E	21.2			E					74.9			E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	41.7			E	15.4			E					54.5			E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	46.9			E	16.6			E					57.9			E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	107			E	42			E					147			E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	50.6			E	19.4			E					68.5			E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	46.5			E	15.6			E					54.7			E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	91.2			E	34.2			E					120			E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	110			E	42.6			E					150			E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	59.6			E	120	P6		E					324			E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	60.1			E	114			E					307			E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	48.8			E	124			E					329			E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	61.1			E	253			E					662			E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	61.8				251								655			
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	1.8	U			0.018	U							0.066	J		
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	60.4			E	129			E					346			E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	48.6			E	136			E					359			E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	38			E	59			E					160			E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	56.2			E	284			E					734			E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	72.1			E	103			E					287			E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	84.6			E	108			E					301			E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	82.9			E	83.6			E					240			E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	71.6			E	144			E					392			E

Table 11c. BPSOU 2021 Wet Weather Results - General Chemistry

SDG	MgDis (mg/L)	Lab Q	Val Q	Status	NH3-N (mg/L)	Lab Q	Val Q	Status	NO3/NO2-N (mg/L)	Lab Q	Val Q	Status	Total Phos (mg/L)	Lab Q	Val Q	Status	SO4 (mg/L)	Lab Q	Val Q	Status	TDS (mg/L)	Lab Q	Val Q	Status	TKN (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10575368	8.8		J-						1.2								510				932								36.4		J	
10575368	0.0034	U							0.084	J							1.2	U			5	U							5	U		
10575368	7.8		J-	S					0.84			E					62.8			E	272			E					23.6		J	S
10575368	6.6		J-	S					0.68			E					131			E	343			E					37		J	S
10575368	6.1		J-	S					0.55			E					148			E	348			E					31.5		J	S
10575368	7.9		J-	S					0.92			E					375			E	794			E					35		J	S
10575368	5.2			E					0.84			E					27.9			E	169			E					28			E
10575368	8.4			E					1.3			E					37.7			E	236			E					17.1			E
10575368	8.8			E					1.3			E					37.8			E	238			E					5	U		E
10575368	8			E					1.3			E					37.1			E	232			E					5	U		E
10575368	8.5								1.3								36.7				237								5	U		
10575368	0.0034	U							0.078	U							1.2	U			9	J							5	U		
10575368	7.6			E					1.1			E					39.6			E	202			E					46.8			E
10575368	5.2			E					0.82			E					70.4			E	212			E					62			E
10575368	4.3			E					0.66			E					206			E	385			E					50.4	D6		E
10575368	7.6			E					1.1			E					593			E	978			E					18.2			E
10575368	9.6			E					0.82			E					62.6			E	269			E					19.6			E
10575368	8.5			E					0.76			E					100	M1	J-	S	293			E					31.2			E
10575368	8.1			E					0.63			E					219		J-	S	487			E					25.3			E
10575368	7.8			E					0.72			E					268		J-	S	550			E					53.6			E
10576060	6.5			E					0.82			E					21.9			E	126			E					39.9			E
10576060	4.2			E					0.5			E					16			E	96	D6		E					81	D6		E
10576060	2.8			E					0.43			E					11.4			E	78			E					105			E
10576060	6.4			E					0.76			E					18.3			E	133			E					112			E
10576060	5.8			E					0.72			E					313	M1	J+	S	576			E					61.4			E
10576060	7.3			E					0.88			E					322		J+	S	600			E					68.5			E
10576060	6			E					0.7			E					321		J+	S	581			E					64			E
10576060	5.3			E					0.65			E					344		J+	S	603			E					95.5			E
10576060	7.3			E					0.84			E					313		J+	S	575			E					70.4			E
10576060	6.4			E					0.75			E					324		J+	S	598			E					86			E
10576060	5			E					0.56			E					168		J+	S	309			E					78.2			E
10576060	7.3			E					0.85			E					651		J+	S	1150			E					79.4			E
10576060	7.8								0.98								687		J+		1140								81			
10576060	0.0034	U							0.078	U							1.2	U			5	U							5	U		
10576060	7.4			E					0.72			E					234		J+	S	502			E					54.7			E
10576060	7.1			E					0.55			E					284		J+	S	572			E					73.3			E
10576060	6.2			E					0.47			E					140		J+	S	339			E					46.7			E
10576060	8			E					0.98			E					549		J+	S	1020			E					50			E
10576060	5			E					0.75			E					18.9			E	117			E					5	U		E
10576060	4.6			E					0.6			E					16.6			E	105			E					61.5			E
10576060	3.5			E					0.5			E					12			E	87	D6		E					68.6	D6	J	S
10576060	4.2			E					0.49			E					12.3			E	100			E					131		J	S
10576060	5.3			E					0.58			E					20.8			E	123			E					17.7		J	S
10576060	3.9			E					0.47			E					14.8			E	96			E					27.6		J	S
10576060	4			E					0.53			E					15.5			E	115			E					36.7		J	S
10576060	10.2			E					1.4			E					35.3			E	217			E					40.6		J	S
10576060	4.9			E					0.51			E					18.7			E	118			E					18.2		J	S
10576060	3.9			E					0.54			E					16.4			E	105			E					26.9		J	S
10576060	8.4			E					1.1			E					29.3			E	194			E					37		J	S
10576060	10.6			E					1.2			E					36.8			E	210			E					5	U	UJ	S
10576060	5.8			E					0.81			E					266			E	514			E					42.9		J	S
10576060	5.7			E					0.66			E					236			E	470			E					46.8		J	S
10576060	4.6			E					0.57			E					205			E	344			E					62.7		J	S
10576060	7			E					0.85			E					649			E	1100			E					24.8		J	S
10576060	7.2								0.86								642				1140								33.2		J	
10576060	0.0073	J,B							0.078	U							1.2	U			5	U							5	U		
10576060	5.9			E					0.84			E					291			E	576			E					60.8		J	S
10576060	4.5			E					0.66			E					368			E	635			E					63.5		J	S
10576060	3.1			E					0.43			E					181			E	317			E					101		J	S
10576060	6.1			E					0.88			E					723			E	1230			E					43.3		J	S
10576060	7.2			E					0.62			E					261			E	514			E					44.4			E
10576060	7.6			E					0.66			E					264			E	533			E					66.1			E
10576060	7.5			E					0.46			E					206			E	427			E					43.4			E
10576060	7.8			E					0.69			E					347			E	676			E					70.7			E

Table 11d. BPSOU 2021 Wet Weather Results - Field

SDG	Location	FieldSampleID	DateCollected	SampleType	Flow (CFS)	Stage (FT)
10562380	SS-01	SWWW0001-052321	5/23/21 16:15	IS4	23.5	1.85
10562380	SS-01	SWWW0002-052321	5/23/21 15:15	IS3	18.7	1.68
10562380	SS-01	SWWW0003-052321	5/23/21 14:15	IS2	13.6	1.49
10562380	SS-01	SWWW0004-052321	5/23/21 13:15	IS1	13.4	1.48
10562380	SS-06G-P	SWWW0005-052321	5/23/21 20:56	IS4	41.6	0.75
10562380	SS-06G-P	SWWW0006-052321	5/23/21 19:56	IS3	50.9	0.87
10562380	SS-06G-P	SWWW0007-052321	5/23/21 18:56	IS2	56.5	0.94
10562380	SS-06G-P	SWWW0008-052321	5/23/21 17:56	IS1-N	45.5	0.80
10562380	SS-06G-P	SWWW0009-052321	5/23/21 17:56	IS1-D	45.5	0.80
10562380	SWQC	SWWW0010-052521	5/25/21 11:00	FB		
10562380	SS-06G	SWWW0011-052321	5/23/21 20:56	IS4	41.6	0.75
10562380	SS-06G	SWWW0012-052321	5/23/21 19:56	IS3	50.9	0.87
10562380	SS-06G	SWWW0013-052321	5/23/21 18:56	IS2	56.5	0.94
10562380	SS-06G	SWWW0014-052321	5/23/21 17:56	IS1	45.5	0.80
10562380	SS-07	SWWW0015-052321	5/23/21 19:01	IS4	61.6	2.10
10562380	SS-07	SWWW0016-052321	5/23/21 18:01	IS3	50.8	2.01
10562380	SS-07	SWWW0017-052321	5/23/21 17:01	IS2	47.9	1.98
10562380	SS-07	SWWW0018-052321	5/23/21 16:01	IS1	42.0	1.91
10562380	SS-01-P	SWWW0019-052321	5/23/21 16:15	IS4	23.5	1.85
10562380	SS-01-P	SWWW0020-052321	5/23/21 15:15	IS3	18.7	1.68
10562380	SS-01-P	SWWW0021-052321	5/23/21 14:15	IS2	13.6	1.49
10562380	SS-01-P	SWWW0022-052321	5/23/21 13:15	IS1	13.4	1.48
10562380	SS-01.35	SWWW0023-052321	5/23/21 19:04	IS4	24.7	5.27
10562380	SS-01.35	SWWW0024-052321	5/23/21 18:04	IS3	27.3	5.33
10562380	SS-01.35	SWWW0025-052321	5/23/21 17:04	IS2	24.3	5.26
10562380	SS-01.35	SWWW0026-052321	5/23/21 16:04	IS1	17.2	5.10
10562380	SS-04	SWWW0027-052321	5/23/21 19:21	IS4		1.52
10562380	SS-04	SWWW0028-052321	5/23/21 18:21	IS3		1.64
10562380	SS-04	SWWW0029-052321	5/23/21 17:21	IS2		1.52
10562380	SS-04	SWWW0030-052321	5/23/21 16:21	IS1		1.31
10562380	SS-05	SWWW0031-052321	5/23/21 18:18	IS4	47.6	1.37
10562380	SS-05	SWWW0032-052321	5/23/21 17:18	IS3	44.7	1.32
10562380	SS-05	SWWW0033-052321	5/23/21 16:18	IS2	37.2	1.18
10562380	SS-05	SWWW0034-052321	5/23/21 15:18	IS1	33.1	1.10
10562380	SS-06A	SWWW0035-052321	5/23/21 20:16	IS4	36.2	0.84
10562380	SS-06A	SWWW0036-052321	5/23/21 19:16	IS3	42.6	0.98
10562380	SS-06A	SWWW0037-052321	5/23/21 18:16	IS2	44.6	1.02
10562380	SS-06A	SWWW0038-052321	5/23/21 17:16	IS1	34.9	0.81
10562380	SS-07-P	SWWW0039-052321	5/23/21 19:00	IS4	61.6	2.10
10562380	SS-07-P	SWWW0040-052321	5/23/21 18:00	IS3	50.8	2.01
10562380	SS-07-P	SWWW0041-052321	5/23/21 17:00	IS2	47.9	1.98
10562380	SS-07-P	SWWW0042-052321	5/23/21 16:00	IS1-N	42.0	1.91
10562380	SS-07-P	SWWW0043-052321	5/23/21 16:00	IS1-D	42.0	1.91
10562380	SWQC	SWWW0044-052521	5/25/21 13:00	FB		
10562853	SS-01	SWWW0045-052621	5/26/21 3:11	IS4	22.2	1.81
10562853	SS-01	SWWW0046-052621	5/26/21 2:11	IS3	21.4	1.78
10562853	SS-01	SWWW0047-052621	5/26/21 1:11	IS2	21.4	1.78

Table 11d. BPSOU 2021 Wet Weather Results - Field

SDG	Location	FieldSampleID	DateCollected	SampleType	Flow (CFS)	Stage (FT)
10562853	SS-01	SWWW0048-052621	5/26/21 0:11	IS1-N	20.8	1.76
10562853	SS-01	SWWW0049-052621	5/26/21 0:11	IS1-D	20.8	1.76
10562853	SWQC	SWWW0050-052821	5/28/21 9:50	FB		
10562853	SS-06G-P	SWWW0051-052621	5/26/21 14:51	IS4	30.4	0.60
10562853	SS-06G-P	SWWW0052-052621	5/26/21 13:51	IS3	42.4	0.76
10562853	SS-06G-P	SWWW0053-052621	5/26/21 12:51	IS2	51.7	0.88
10562853	SS-06G-P	SWWW0054-052621	5/26/21 11:51	IS1	47.0	0.82
10562853	SS-06G	SWWW0055-052621	5/26/21 14:51	IS4	30.4	0.60
10562853	SS-06G	SWWW0056-052621	5/26/21 13:51	IS3	42.4	0.76
10562853	SS-06G	SWWW0057-052621	5/26/21 12:51	IS2	51.7	0.88
10562853	SS-06G	SWWW0058-052621	5/26/21 11:51	IS1	47.0	0.82
10562853	SS-07	SWWW0059-052621	5/26/21 15:01	IS4	44.4	1.95
10562853	SS-07	SWWW0060-052621	5/26/21 14:01	IS3	58.4	2.08
10562853	SS-07	SWWW0061-052621	5/26/21 13:01	IS2	57.1	2.07
10562853	SS-07	SWWW0062-052621	5/26/21 12:01	IS1	51.1	2.02
10562853	SS-01-P	SWWW0063-052621	5/26/21 3:11	IS4	22.2	1.81
10562853	SS-01-P	SWWW0064-052621	5/26/21 2:11	IS3	21.4	1.78
10562853	SS-01-P	SWWW0065-052621	5/26/21 1:11	IS2	21.4	1.78
10562853	SS-01-P	SWWW0066-052621	5/26/21 0:11	IS1	20.8	1.76
10562853	SS-01.35	SWWW0067-052621	5/26/21 13:51	IS4	21.9	5.21
10562853	SS-01.35	SWWW0068-052621	5/26/21 12:51	IS3	24.5	5.27
10562853	SS-01.35	SWWW0069-052621	5/26/21 11:51	IS2	25.4	5.29
10562853	SS-01.35	SWWW0070-052621	5/26/21 10:51	IS1	19.6	5.16
10562853	SS-04	SWWW0071-052621	5/26/21 14:21	IS4		1.24
10562853	SS-04	SWWW0072-052621	5/26/21 13:21	IS3		1.36
10562853	SS-04	SWWW0073-052621	5/26/21 12:21	IS2		1.55
10562853	SS-04	SWWW0074-052621	5/26/21 11:21	IS1		1.52
10562853	SS-05	SWWW0075-052621	5/26/21 14:09	IS4	27.4	0.98
10562853	SS-05	SWWW0076-052621	5/26/21 13:09	IS3	37.3	1.18
10562853	SS-05	SWWW0077-052621	5/26/21 12:09	IS2	43.7	1.30
10562853	SS-05	SWWW0078-052621	5/26/21 11:09	IS1	38.8	1.21
10562853	SS-06A	SWWW0079-052621	5/26/21 12:41	IS4	41.1	0.95
10562853	SS-06A	SWWW0080-052621	5/26/21 11:41	IS3	37.8	0.88
10562853	SS-06A	SWWW0081-052621	5/26/21 10:41	IS2	36.9	0.86
10562853	SS-06A	SWWW0082-052621	5/26/21 9:41	IS1-N	33.8	0.79
10562853	SS-06A	SWWW0083-052621	5/26/21 9:41	IS1-D	33.8	0.79
10562853	SWQC	SWWW0084-052821	5/28/21 11:05	FB		
10562853	SS-07-P	SWWW0085-052621	5/26/21 15:00	IS4	44.4	1.95
10562853	SS-07-P	SWWW0086-052621	5/26/21 14:00	IS3	58.4	2.08
10562853	SS-07-P	SWWW0087-052621	5/26/21 13:00	IS2	57.1	2.07
10562853	SS-07-P	SWWW0088-052621	5/26/21 12:00	IS1	51.1	2.02
10565256	SS-01	SWWW0089-061021	6/10/21 18:16	IS4	8.0	1.27
10565256	SS-01	SWWW0090-061021	6/10/21 17:16	IS3	8.8	1.30
10565256	SS-01	SWWW0091-061021	6/10/21 16:16	IS2	13.1	1.47
10565256	SS-01	SWWW0092-061021	6/10/21 15:16	IS1	12.3	1.44
10565256	SS-06G-P	SWWW0093-061021	6/10/21 18:56	IS4	38.6	0.71
10565256	SS-06G-P	SWWW0094-061021	6/10/21 17:56	IS3	32.6	0.63

Table 11d. BPSOU 2021 Wet Weather Results - Field

SDG	Location	FieldSampleID	DateCollected	SampleType	Flow (CFS)	Stage (FT)
10565256	SS-06G-P	SWWW0095-061021	6/10/21 16:56	IS2	34.8	0.66
10565256	SS-06G-P	SWWW0096-061021	6/10/21 15:56	IS1	36.3	0.68
10565256	SS-06G	SWWW0097-061021	6/10/21 18:56	IS4	38.6	0.71
10565256	SS-06G	SWWW0098-061021	6/10/21 17:56	IS3	32.6	0.63
10565256	SS-06G	SWWW0099-061021	6/10/21 16:56	IS2	34.8	0.66
10565256	SS-06G	SWWW0100-061021	6/10/21 15:56	IS1-N	36.3	0.68
10565256	SS-06G	SWWW0101-061021	6/10/21 15:56	IS1-D	36.3	0.68
10565256	SWQC	SWWW0102-061421	6/14/21 12:05	FB		
10565256	SS-07	SWWW0103-061021	6/10/21 18:51	IS4	44.1	1.95
10565256	SS-07	SWWW0104-061021	6/10/21 17:51	IS3	46.7	1.98
10565256	SS-07	SWWW0105-061021	6/10/21 16:51	IS2	49.6	2.01
10565256	SS-07	SWWW0106-061021	6/10/21 15:51	IS1	36.0	1.85
10565256	SS-01-P	SWWW0107-061021	6/10/21 18:15	IS4	8.0	1.27
10565256	SS-01-P	SWWW0108-061021	6/10/21 17:15	IS3	8.8	1.30
10565256	SS-01-P	SWWW0109-061021	6/10/21 16:15	IS2	13.1	1.47
10565256	SS-01-P	SWWW0110-061021	6/10/21 15:15	IS1	12.3	1.44
10565256	SS-01.35	SWWW0111-061021	6/10/21 19:33	IS4	13.7	4.99
10565256	SS-01.35	SWWW0112-061021	6/10/21 18:33	IS3	17.4	5.08
10565256	SS-01.35	SWWW0113-061021	6/10/21 17:33	IS2	17.9	5.09
10565256	SS-01.35	SWWW0114-061021	6/10/21 16:33	IS1	8.7	4.87
10565256	SS-04	SWWW0115-061021	6/10/21 20:04	IS4		1.21
10565256	SS-04	SWWW0116-061021	6/10/21 19:04	IS3		1.27
10565256	SS-04	SWWW0117-061021	6/10/21 18:04	IS2		1.33
10565256	SS-04	SWWW0118-061021	6/10/21 17:04	IS1		1.21
10565256	SS-05	SWWW0119-061021	6/10/21 18:03	IS4	33.0	1.10
10565256	SS-05	SWWW0120-061021	6/10/21 17:03	IS3	27.7	0.99
10565256	SS-05	SWWW0121-061021	6/10/21 16:03	IS2	29.1	1.02
10565256	SS-05	SWWW0122-061021	6/10/21 15:03	IS1	29.6	1.03
10565256	SS-06A	SWWW0123-061021	6/10/21 18:20	IS4	31.3	0.73
10565256	SS-06A	SWWW0124-061021	6/10/21 17:20	IS3	26.1	0.61
10565256	SS-06A	SWWW0125-061021	6/10/21 16:20	IS2	31.0	0.72
10565256	SS-06A	SWWW0126-061021	6/10/21 15:20	IS1	25.1	0.59
10565256	SS-07-P	SWWW0127-061021	6/10/21 18:51	IS4	44.1	1.95
10565256	SS-07-P	SWWW0128-061021	6/10/21 17:51	IS3	46.7	1.98
10565256	SS-07-P	SWWW0129-061021	6/10/21 16:51	IS2	49.6	2.01
10565256	SS-07-P	SWWW0130-061021	6/10/21 15:51	IS1-N	36.0	1.85
10565256	SS-07-P	SWWW0131-061021	6/10/21 15:51	IS1-D	36.0	1.85
10565256	SWQC	SWWW0132-061421	6/14/21 13:45	FB		
10568665	SS-01	SWWW0133-070121	7/1/21 17:26	IS4	6.3	1.21
10568665	SS-01	SWWW0134-070121	7/1/21 16:26	IS3	8.6	1.30
10568665	SS-01	SWWW0135-070121	7/1/21 15:26	IS2	25.5	1.93
10568665	SS-01	SWWW0136-070121	7/1/21 14:26	IS1	3.0	1.07
10568665	SS-06G-P	SWWW0137-070121	7/1/21 17:54	IS4	29.6	0.59
10568665	SS-06G-P	SWWW0138-070121	7/1/21 16:54	IS3	16.7	0.41
10568665	SS-06G-P	SWWW0139-070121	7/1/21 15:54	IS2	29.6	0.59
10568665	SS-06G-P	SWWW0140-070121	7/1/21 14:54	IS1	18.1	0.43
10568665	SS-06G	SWWW0141-070121	7/1/21 17:54	IS4	29.6	0.59

Table 11d. BPSOU 2021 Wet Weather Results - Field

SDG	Location	FieldSampleID	DateCollected	SampleType	Flow (CFS)	Stage (FT)
10568665	SS-06G	SWWW0142-070121	7/1/21 16:54	IS3	16.7	0.41
10568665	SS-06G	SWWW0143-070121	7/1/21 15:54	IS2	29.6	0.59
10568665	SS-06G	SWWW0144-070121	7/1/21 14:54	IS1-N	18.1	0.43
10568665	SS-06G	SWWW0145-070121	7/1/21 14:54	IS1-D	18.1	0.43
10568665	SWQC	SWWW0146-070621	7/6/21 12:00	FB		
10568665	SS-07	SWWW0147-070121	7/1/21 17:54	IS4	31.5	1.81
10568665	SS-07	SWWW0148-070121	7/1/21 16:54	IS3	46.3	2.01
10568665	SS-07	SWWW0149-070121	7/1/21 15:54	IS2	30.8	1.80
10568665	SS-07	SWWW0150-070121	7/1/21 14:54	IS1	22.8	1.67
10568665	SS-01-P	SWWW0151-070121	7/1/21 17:25	IS4	6.3	1.21
10568665	SS-01-P	SWWW0152-070121	7/1/21 16:25	IS3	8.6	1.30
10568665	SS-01-P	SWWW0153-070121	7/1/21 15:25	IS2	25.5	1.93
10568665	SS-01-P	SWWW0154-070121	7/1/21 14:25	IS1-N	3.0	1.07
10568665	SS-01-P	SWWW0155-070121	7/1/21 14:25	IS1-D	3.0	1.07
10568665	SWQC	SWWW0156-070621	7/6/21 12:15	FB		
10568665	SS-01.35	SWWW0157-070121	7/1/21 18:40	IS4	13.9	4.97
10568665	SS-01.35	SWWW0158-070121	7/1/21 17:40	IS3	21.6	5.16
10568665	SS-01.35	SWWW0159-070121	7/1/21 16:40	IS2	16.4	5.03
10568665	SS-01.35	SWWW0160-070121	7/1/21 15:40	IS1	5.2	4.76
10568665	SS-04	SWWW0161-070121	7/1/21 17:16	IS4		1.29
10568665	SS-04	SWWW0162-070121	7/1/21 16:16	IS3		1.15
10568665	SS-04	SWWW0163-070121	7/1/21 15:16	IS2		0.97
10568665	SS-04	SWWW0164-070121	7/1/21 14:16	IS1		1.05
10568665	SS-05	SWWW0165-070121	7/1/21 17:08	IS4	28.2	1.00
10568665	SS-05	SWWW0166-070121	7/1/21 16:08	IS3	18.0	0.77
10568665	SS-05	SWWW0167-070121	7/1/21 15:08	IS2	23.6	0.90
10568665	SS-05	SWWW0168-070121	7/1/21 14:08	IS1	12.1	0.62
10568665	SS-06A	SWWW0169-070121	7/1/21 17:26	IS4	26.8	0.63
10568665	SS-06A	SWWW0170-070121	7/1/21 16:26	IS3	14.9	0.35
10568665	SS-06A	SWWW0171-070121	7/1/21 15:26	IS2	32.4	0.76
10568665	SS-06A	SWWW0172-070121	7/1/21 14:26	IS1	11.7	0.27
10568665	SS-07-P	SWWW0173-070121	7/1/21 17:53	IS4	31.5	1.81
10568665	SS-07-P	SWWW0174-070121	7/1/21 16:53	IS3	46.3	2.01
10568665	SS-07-P	SWWW0175-070121	7/1/21 15:53	IS2	30.8	1.80
10568665	SS-07-P	SWWW0176-070121	7/1/21 14:53	IS1	22.8	1.67
10572927	SS-01	SWWW0177-080121	8/1/21 23:56	IS4	4.7	1.14
10572927	SS-01	SWWW0178-080121	8/1/21 22:56	IS3	4.5	1.13
10572927	SS-01	SWWW0179-080121	8/1/21 21:56	IS2	14.8	1.54
10572927	SS-01	SWWW0180-080121	8/1/21 20:56	IS1	3.8	1.10
10572927	SS-06G-P	SWWW0181-080121	8/1/21 20:05	IS4	34.8	0.66
10572927	SS-06G-P	SWWW0182-080121	8/1/21 19:05	IS3	90.6	1.35
10572927	SS-06G-P	SWWW0183-080121	8/1/21 18:05	IS2	40.1	0.73
10572927	SS-06G-P	SWWW0184-080121	8/1/21 17:05	IS1	26.7	0.55
10572927	SS-06G	SWWW0185-080121	8/1/21 20:05	IS4	34.8	0.66
10572927	SS-06G	SWWW0186-080121	8/1/21 19:05	IS3	90.6	1.35
10572927	SS-06G	SWWW0187-080121	8/1/21 18:05	IS2	40.1	0.73
10572927	SS-06G	SWWW0188-080121	8/1/21 17:05	IS1-N	26.7	0.55

Table 11d. BPSOU 2021 Wet Weather Results - Field

SDG	Location	FieldSampleID	DateCollected	SampleType	Flow (CFS)	Stage (FT)
10572927	SS-06G	SWWW0189-080121	8/1/21 17:05	IS1-D	26.7	0.55
10572927	SWQC	SWWW0190-080221	8/2/21 16:00	FB		
10572927	SS-07	SWWW0191-080121	8/1/21 19:46	IS4	155.0	2.74
10572927	SS-07	SWWW0192-080121	8/1/21 18:46	IS3	52.9	2.25
10572927	SS-07	SWWW0193-080121	8/1/21 17:46	IS2	29.6	1.90
10572927	SS-07	SWWW0194-080121	8/1/21 16:46	IS1	27.6	1.85
10572927	SS-01-P	SWWW0195-080121	8/1/21 23:56	IS4	4.7	1.14
10572927	SS-01-P	SWWW0196-080121	8/1/21 22:56	IS3	4.5	1.13
10572927	SS-01-P	SWWW0197-080121	8/1/21 21:56	IS2	14.8	1.54
10572927	SS-01-P	SWWW0198-080121	8/1/21 20:56	IS1-N	3.8	1.10
10572927	SS-01-P	SWWW0199-080121	8/1/21 20:56	IS1-D	3.8	1.10
10572927	SWQC	SWWW0200-080321	8/3/21 9:30	FB		
10572927	SS-01.35	SWWW0201-080221	8/2/21 0:58	IS4	17.9	5.10
10572927	SS-01.35	SWWW0202-080121	8/1/21 23:58	IS3	26.4	5.30
10572927	SS-01.35	SWWW0203-080121	8/1/21 22:58	IS2	6.9	4.84
10572927	SS-01.35	SWWW0204-080121	8/1/21 21:58	IS1	5.7	4.81
10572927	SS-04	SWWW0205-080121	8/1/21 19:43	IS4		1.22
10572927	SS-04	SWWW0206-080121	8/1/21 18:43	IS3		1.48
10572927	SS-04	SWWW0207-080121	8/1/21 17:43	IS2		1.17
10572927	SS-04	SWWW0208-080121	8/1/21 16:43	IS1		1.13
10572927	SS-05	SWWW0209-080121	8/1/21 19:22	IS4	27.3	0.98
10572927	SS-05	SWWW0210-080121	8/1/21 18:22	IS3	60.7	1.59
10572927	SS-05	SWWW0211-080121	8/1/21 17:22	IS2	26.8	0.97
10572927	SS-05	SWWW0212-080121	8/1/21 16:22	IS1	18.9	0.79
10572927	SS-06A	SWWW0213-080121	8/1/21 19:36	IS4	30.1	0.71
10572927	SS-06A	SWWW0214-080121	8/1/21 18:36	IS3	83.7	1.80
10572927	SS-06A	SWWW0215-080121	8/1/21 17:36	IS2	38.4	0.89
10572927	SS-06A	SWWW0216-080121	8/1/21 16:36	IS1	19.8	0.47
10572927	SS-07-P	SWWW0217-080121	8/1/21 19:46	IS4	155.0	2.74
10572927	SS-07-P	SWWW0218-080121	8/1/21 18:46	IS3	52.9	2.25
10572927	SS-07-P	SWWW0219-080121	8/1/21 17:46	IS2	29.6	1.90
10572927	SS-07-P	SWWW0220-080121	8/1/21 16:46	IS1	27.6	1.85
10574117	SS-01	SWWW0221-080821	8/8/21 19:26	IS4	32.7	2.16
10574117	SS-01	SWWW0222-080821	8/8/21 18:26	IS3	3.9	1.10
10574117	SS-01	SWWW0223-080821	8/8/21 17:26	IS2	4.2	1.11
10574117	SS-01	SWWW0224-080821	8/8/21 16:26	IS1	4.2	1.11
10574117	SS-06G-P	SWWW0225-080821	8/8/21 22:35	IS4	59.7	0.98
10574117	SS-06G-P	SWWW0226-080821	8/8/21 21:35	IS3	55.7	0.93
10574117	SS-06G-P	SWWW0227-080821	8/8/21 20:35	IS2	47.8	0.83
10574117	SS-06G-P	SWWW0228-080821	8/8/21 19:35	IS1	24.5	0.52
10574117	SS-06G	SWWW0229-080821	8/8/21 22:35	IS4	59.7	0.98
10574117	SS-06G	SWWW0230-080821	8/8/21 21:35	IS3	55.7	0.93
10574117	SS-06G	SWWW0231-080821	8/8/21 20:35	IS2	47.8	0.83
10574117	SS-06G	SWWW0232-080821	8/8/21 19:35	IS1-N	24.5	0.52
10574117	SS-06G	SWWW0233-080821	8/8/21 19:35	IS1-D	24.5	0.52
10574117	SWQC	SWWW0234-080921	8/9/21 14:45	FB		
10574117	SS-07	SWWW0235-080821	8/8/21 22:41	IS4	69.9	2.34

Table 11d. BPSOU 2021 Wet Weather Results - Field

SDG	Location	FieldSampleID	DateCollected	SampleType	Flow (CFS)	Stage (FT)
10574117	SS-07	SWWW0236-080821	8/8/21 21:41	IS3	50.5	2.24
10574117	SS-07	SWWW0237-080821	8/8/21 20:41	IS2	28.3	1.87
10574117	SS-07	SWWW0238-080821	8/8/21 19:41	IS1	24.7	1.78
10574117	SS-01-P	SWWW0239-080821	8/8/21 19:26	IS4	32.7	2.16
10574117	SS-01-P	SWWW0240-080821	8/8/21 18:26	IS3	3.9	1.10
10574117	SS-01-P	SWWW0241-080821	8/8/21 17:26	IS2	4.2	1.11
10574117	SS-01-P	SWWW0242-080821	8/8/21 16:26	IS1	4.2	1.11
10574117	SS-01.35	SWWW0243-080821	8/8/21 22:46	IS4	41.9	5.67
10574117	SS-01.35	SWWW0244-080821	8/8/21 21:46	IS3	42.7	5.69
10574117	SS-01.35	SWWW0245-080821	8/8/21 20:46	IS2	9.8	4.92
10574117	SS-01.35	SWWW0246-080821	8/8/21 19:46	IS1	8.1	4.88
10574117	SS-04	SWWW0247-080821	8/8/21 22:03	IS4		1.80
10574117	SS-04	SWWW0248-080821	8/8/21 21:03	IS3		1.79
10574117	SS-04	SWWW0249-080821	8/8/21 20:03	IS2		1.19
10574117	SS-04	SWWW0250-080821	8/8/21 19:03	IS1		1.13
10574117	SS-05	SWWW0251-080821	8/8/21 21:51	IS4	50.5	1.42
10574117	SS-05	SWWW0252-080821	8/8/21 20:51	IS3	47.6	1.37
10574117	SS-05	SWWW0253-080821	8/8/21 19:51	IS2	37.2	1.18
10574117	SS-05	SWWW0254-080821	8/8/21 18:51	IS1-N	17.3	0.75
10574117	SS-05	SWWW0255-080821	8/8/21 18:51	IS1-D	17.3	0.75
10574117	SWQC	SWWW0256-081021	8/10/21 10:35	FB		
10574117	SS-06A	SWWW0257-080821	8/8/21 22:09	IS4	49.8	1.13
10574117	SS-06A	SWWW0258-080821	8/8/21 21:09	IS3	40.6	0.94
10574117	SS-06A	SWWW0259-080821	8/8/21 20:09	IS2	44.1	1.01
10574117	SS-06A	SWWW0260-080821	8/8/21 19:09	IS1	15.8	0.37
10574117	SS-07-P	SWWW0261-080821	8/8/21 22:41	IS4	69.9	2.34
10574117	SS-07-P	SWWW0262-080821	8/8/21 21:41	IS3	50.5	2.24
10574117	SS-07-P	SWWW0263-080821	8/8/21 20:41	IS2	28.3	1.87
10574117	SS-07-P	SWWW0264-080821	8/8/21 19:41	IS1	24.7	1.78
10576060	SS-01	SWWW0293-082121	8/21/21 21:49	IS4	17.4	1.63
10576060	SS-01	SWWW0294-082121	8/21/21 20:49	IS3	25.2	1.92
10576060	SS-01	SWWW0295-082121	8/21/21 19:49	IS2	42.8	2.49
10576060	SS-01	SWWW0296-082121	8/21/21 18:49	IS1	4.7	1.14
10576060	SS-06G-P	SWWW0297-082121	8/21/21 22:50	IS4	65.3	1.05
10576060	SS-06G-P	SWWW0298-082121	8/21/21 21:50	IS3	62.1	1.01
10576060	SS-06G-P	SWWW0299-082121	8/21/21 20:50	IS2	44.7	0.79
10576060	SS-06G-P	SWWW0300-082121	8/21/21 19:50	IS1	40.9	0.74
10576060	SS-06G	SWWW0301-082121	8/21/21 22:50	IS4	65.3	1.05
10576060	SS-06G	SWWW0302-082121	8/21/21 21:50	IS3	62.1	1.01
10576060	SS-06G	SWWW0303-082121	8/21/21 20:50	IS2	44.7	0.79
10576060	SS-06G	SWWW0304-082121	8/21/21 19:50	IS1-N	40.9	0.74
10576060	SS-06G	SWWW0305-082121	8/21/21 19:50	IS1-D	40.9	0.74
10576060	SWQC	SWWW0306-082421	8/24/21 13:33	FB		
10576060	SS-07	SWWW0307-082121	8/21/21 22:45	IS4	84.6	2.38
10576060	SS-07	SWWW0308-082121	8/21/21 21:45	IS3	49.7	2.16
10576060	SS-07	SWWW0309-082121	8/21/21 20:45	IS2	50.3	2.17
10576060	SS-07	SWWW0310-082121	8/21/21 19:45	IS1	30.3	1.84

Table 11d. BPSOU 2021 Wet Weather Results - Field

SDG	Location	FieldSampleID	DateCollected	SampleType	Flow (CFS)	Stage (FT)
10576060	SS-01-P	SWWW0311-082121	8/21/21 21:49	IS4	17.4	1.63
10576060	SS-01-P	SWWW0312-082121	8/21/21 20:49	IS3	25.2	1.92
10576060	SS-01-P	SWWW0313-082121	8/21/21 19:49	IS2	42.8	2.49
10576060	SS-01-P	SWWW0314-082121	8/21/21 18:49	IS1	4.7	1.14
10576060	SS-01.35	SWWW0315-082121	8/21/21 23:02	IS4	46.7	5.79
10576060	SS-01.35	SWWW0316-082121	8/21/21 22:02	IS3	54.7	5.99
10576060	SS-01.35	SWWW0317-082121	8/21/21 21:02	IS2	40.7	5.64
10576060	SS-01.35	SWWW0318-082121	8/21/21 20:02	IS1	9.3	4.94
10576060	SS-04	SWWW0319-082121	8/21/21 23:23	IS4		1.77
10576060	SS-04	SWWW0320-082121	8/21/21 22:23	IS3		1.96
10576060	SS-04	SWWW0321-082121	8/21/21 21:23	IS2		1.95
10576060	SS-04	SWWW0322-082121	8/21/21 20:23	IS1		1.18
10576060	SS-05	SWWW0323-082121	8/21/21 21:49	IS4	60.5	1.59
10576060	SS-05	SWWW0324-082121	8/21/21 20:49	IS3	54.4	1.49
10576060	SS-05	SWWW0325-082121	8/21/21 19:49	IS2	43.4	1.30
10576060	SS-05	SWWW0326-082121	8/21/21 18:49	IS1-N	21.7	0.86
10576060	SS-05	SWWW0327-082121	8/21/21 18:49	IS1-D	21.7	0.86
10576060	SWQC	SWWW0328-082421	8/24/21 13:25	FB		
10576060	SS-06A	SWWW0329-082121	8/21/21 22:16	IS4	58.9	1.32
10576060	SS-06A	SWWW0330-082121	8/21/21 21:16	IS3	49.2	1.12
10576060	SS-06A	SWWW0331-082121	8/21/21 20:16	IS2	46.2	1.06
10576060	SS-06A	SWWW0332-082121	8/21/21 19:16	IS1	26.3	0.62
10576060	SS-07-P	SWWW0333-082121	8/21/21 22:45	IS4	84.6	2.38
10576060	SS-07-P	SWWW0334-082121	8/21/21 21:45	IS3	49.7	2.16
10576060	SS-07-P	SWWW0335-082121	8/21/21 20:45	IS2	50.3	2.17
10576060	SS-07-P	SWWW0336-082121	8/21/21 19:45	IS1	30.3	1.84

*Stage-discharge relationships are not developed for SS-04.

Table 12. BPSOU 2021 Surface Water Sample Collection Matrix - Diagnostic

Drainage Basin	Sample Location[1]	5/7/2021	5/14/2021	5/19/2021	5/20/2021	5/21/2021	5/22/2021	5/23/2021	5/24/2021	5/25/2021	5/26/2021	6/10/2021	6/11/2021	7/1/2021	7/20/2021	8/1/2021	8/8/2021	8/18/2021	8/20/2021	8/21/2021	10/8/2021[2]
Buffalo Gulch	BG-CLV-1				ISCO (7)	ISCO (5)		ISCO (3)		ISCO (6)	ISCO (2)	ISCO (5)		ISCO (5)	ISCO (1)	ISCO (7)	ISCO (4)	ISCO (4)		ISCO (5)	
Grove Gulch	GG-CH-1							ISCO (8)				ISCO (1)					ISCO (2)	ISCO (2)		ISCO (3)	
	GG-CLV-I							AS							AS	ISCO (4), AS	AS	ISCO (1), AS		AS	
	GG-CLV-D	ISCO (2), FG			ISCO (1), AS	AS		ISCO (2), AS			ISCO (1)	ISCO (1), AS		ISCO (1), AS		ISCO (3), AS	ISCO (2)	ISCO (2), AS	ISCO (2), AS	ISCO (1), AS	
	GG-CLV-C		AS					AS			AS	AS		AS	AS	ISCO (1), AS				AS	
Locust Street	LC-CLV-1										ISCO (6)	ISCO (6)		ISCO (6)		ISCO (6)	ISCO (6)	ISCO (2)		ISCO (6)	
Missoula Gulch	MG-CLV-0																				ISCO (5)
Upper Silver Bow Creek	MSD-CLV-3A										ISCO (8)	ISCO (7)		ISCO (8)		ISCO (8)	ISCO (7)				
Montana Pole Treatment Plant	MPTP-CLV-1							AS			AS					ISCO (7) , AS		AS	AS	ISCO (4)	
Texas Avenue	TX-HD-OUT			ISCO (1)	ISCO (2)	ISCO (2)	ISCO (1)	ISCO (1)	ISCO (1)	ISCO (1)	ISCO (2)	ISCO (6)	ISCO (2)			ISCO (3)	ISCO (3)	ISCO (5)		ISCO (8)	

[1]Sample collection dependent on precipitation event, not every storm generates sufficient run-off to trigger samplers at every location

[2]10/08/2021 Event resulted from CB-9 year end drainage by BSB.

Legend:

ISCO (#) = # samples prepped from ISCO sampler

AS = One sample prepped from T-TEC Automatic sampler

FG = One sample prepped , Field Grab

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	0.0322			E	0.0014			E	0.165			E
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	0.0305				0.0013				0.158			
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	0.00014	J			0.000081				0.00043	U		
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	0.0487			E	0.0026			E	0.286			E
10560269	GG-CLV-D	SWSD0005-050721	10560269005	2021-05-07 17:20	FG	B	0.0619			E	0.0052			E	0.367			E
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	0.0114			E	0.00086			E	0.0765			E
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	0.0114			E	0.00079			E	0.0809			E
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	0.0104			E	0.00068			E	0.0743			E
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	0.0089			E	0.00057			E	0.0797			E
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	0.0091			E	0.00054			E	0.0808			E
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	0.0097			E	0.00053			E	0.0855			E
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	0.0154			E	0.00092			E	0.139			E
10561913	GG-CLV-D	SWSD0013-052021	10561913008	2021-05-20 07:45	IS1	B	0.0262			E	0.0011			E	0.144			E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	0.0066			E	0.00013			E	0.0601			E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	0.0115			E	0.00013			E	0.0691			E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	0.0103			E	0.00011			E	0.0681			E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	0.0109				0.00012				0.0746			
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	0.00014	U			0.00003	U			0.00054	J		
10561913	GG-CLV-C	SWSD0019-051421	10561913014	2021-05-14 20:00	AS	B	0.0141			E	0.002			E	0.188			E
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	0.0265			E	0.0017			E	0.177			E
10561913	GG-CLV-D	SWSD0021-052121	10561913016	2021-05-21 07:51	AS	B	0.0256			E	0.0011			E	0.142			E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	0.0319			E	0.0023			E	0.267			E
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	0.0222			E	0.0016			E	0.176			E
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	0.0091			E	0.00044			E	0.0564			E
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	0.0162			E	0.0011			E	0.113			E
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	0.0219			E	0.0017			E	0.152			E
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	0.0204			E	0.0013			E	0.163			E
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	0.0195			E	0.0011			E	0.17			E
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	0.0148			E	0.0008			E	0.111			E
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	0.0062			E	0.00005	J		E	0.0045		J+	S
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	0.0089			E	0.00012			E	0.0102		J+	S
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	0.0068			E	0.000065	J		E	0.0067		J+	S
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	0.0063			E	0.000039	J		E	0.0047		J+	S
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	0.0076			E	0.000082			E	0.0097		J+	S
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	0.0063			E	0.000046	J		E	0.0051		J+	S
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	0.0065			E	0.000042	J		E	0.0046		J+	S
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	0.0064			E	0.000059	J		E	0.0056		J+	S
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	0.0064				0.000048	J			0.0047		J+	
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	0.00014	U			0.00003	U			0.0027			
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	0.0306			E	0.0013			E	0.173			E
10562410	GG-CLV-D	SWSD0041-052321	10562410020	2021-05-23 17:00	IS1	B	0.0394			E	0.0017			E	0.23			E
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	0.0133			E	0.00028			E	0.179			E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	0.0071			E	0.000084			E	0.0442			E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	0.0085			E	0.00018			E	0.089			E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	0.0062			E	0.000099			E	0.0536			E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	0.0058			E	0.000086			E	0.0507			E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	0.0061				0.00009				0.0541			
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	0.00014	U			0.00003	U			0.00043	U		
10562410	GG-CLV-C	SWSD0049-052321	10562410028	2021-05-23 17:00	AS	B	0.0052			E	0.00095			E	0.0542			E
10562410	GG-CLV-D	SWSD0050-052321	10562410029	2021-05-23 17:00	AS	B	0.0298			E	0.0016			E	0.175			E
10562410	GG-CLV-I	SWSD0051-052321	10562410030	2021-05-23 17:00	AS	B	0.0485			E	0.0018			E	0.307			E
10562410	MPTP-CLV-1	SWSD0052-052321	10562410031	2021-05-23 17:00	AS	B	0.0191			E	0.0008			E	0.0956			E

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	15			E	0.00006	J		E	0.121			E	0.32			E
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	14.3				0.00006	J			0.112				0.306			
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	0.012	U			0.000045	U			0.00014				0.0023	U		
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	27.8	P6		E	0.00014	J		E	0.229			E	0.59	P6		E
10560269	GG-CLV-D	SWSD0005-050721	10560269005	2021-05-07 17:20	FG	B	37.9			E	0.00016	J		E	0.282			E	0.788			E
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	6.44	M1	J-	S	0.00006	J		E	0.0826			E	0.346	M1	J-	S
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	6.62		J-	S	0.00006	J		E	0.0886			E	0.313		J-	S
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	6.32		J-	S	0.00005	J		E	0.0754			E	0.278		J-	S
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	6.48		J-	S	0.00007	J		E	0.0651			E	0.255		J-	S
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	6.32		J-	S	0.00007	J		E	0.0696			E	0.253		J-	S
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	6.49		J-	S	0.00008	J		E	0.0706			E	0.257		J-	S
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	10.5		J-	S	0.00015	J		E	0.135			E	0.438		J-	S
10561913	GG-CLV-D	SWSD0013-052021	10561913008	2021-05-20 07:45	IS1	B	13.9			E	0.00008	J		E	0.112			E	0.291			E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	1.49			E	0.000045	U		E	0.0077			E	0.0471			E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	2.38			E	0.000045	U		E	0.0083			E	0.0501			E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	2.27			E	0.000045	U		E	0.0067			E	0.0448			E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	2.39				0.000045	U			0.0077				0.047			
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	0.012	U			0.000045	U			0.000068	J			0.0023	U		
10561913	GG-CLV-C	SWSD0019-051421	10561913014	2021-05-14 20:00	AS	B	1.42			E	0.000045	U		E	0.0131			E	0.139			E
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	16.7			E	0.00013	J		E	0.138			E	0.348			E
10561913	GG-CLV-D	SWSD0021-052121	10561913016	2021-05-21 07:51	AS	B	12.9			E	0.00008	J		E	0.103			E	0.267			E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	15.9			E	0.00022			E	0.291			E	0.937			E
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	11.2			E	0.00014	J		E	0.191			E	0.65			E
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	4.53			E	0.000045	U		E	0.0477			E	0.215			E
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	9.52			E	0.00011	J		E	0.116			E	0.496			E
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	13			E	0.00022			E	0.184			E	0.728			E
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	12.3			E	0.00015	J		E	0.149			E	0.615			E
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	11.9			E	0.00013	J		E	0.137			E	0.571			E
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	9.06			E	0.00007	J		E	0.0859			E	0.417			E
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	0.341			E	0.000045	U		E	0.00083		J+	S	0.0659			E
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	1.14			E	0.000045	U		E	0.0048		J+	S	0.147			E
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	0.474			E	0.000045	U		E	0.0016			E	0.0809			E
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	0.348			E	0.000045	U		E	0.00072		J+	S	0.061			E
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	0.77			E	0.000045	U		E	0.0034			E	0.116			E
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	0.362			E	0.000045	U		E	0.001		J+	S	0.0645			E
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	0.394			E	0.000045	U		E	0.0011		J+	S	0.0681			E
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	0.407			E	0.000045	U		E	0.0012		J+	S	0.0695			E
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	0.407				0.000045	U			0.0012		J+		0.0702			
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	0.012	U			0.000045	U			0.00015				0.0023	U		
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	13.1			E	0.00008	J		E	0.104			E	0.272			E
10562410	GG-CLV-D	SWSD0041-052321	10562410020	2021-05-23 17:00	IS1	B	21.4			E	0.00011	J		E	0.169			E	0.464			E
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	5.41			E	0.000045	U		E	0.0252			E	0.105			E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	1.06			E	0.000045	U		E	0.0066			E	0.0333			E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	2.79			E	0.000045	U		E	0.0163			E	0.0775			E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	1.99			E	0.000045	U		E	0.0083			E	0.0566			E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	1.63			E	0.000045	U		E	0.0068			E	0.0475			E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	1.77				0.000045	U			0.0071				0.0483			
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	0.012	U			0.000045	U			0.000061	J			0.0023	U		
10562410	GG-CLV-C	SWSD0049-052321	10562410028	2021-05-23 17:00	AS	B	1.27			E	0.000045	U		E	0.0088			E	0.0854			E
10562410	GG-CLV-D	SWSD0050-052321	10562410029	2021-05-23 17:00	AS	B	13.2			E	0.00009	J		E	0.124			E	0.3			E
10562410	GG-CLV-I	SWSD0051-052321	10562410030	2021-05-23 17:00	AS	B	3.64			E	0.00007	J		E	0.0535			E	0.486			E
10562410	MPTP-CLV-1	SWSD0052-052321	10562410031	2021-05-23 17:00	AS	B	3.44			E	0.000045	U		E	0.0276			E	1.05			E

See Table A4 for laboratory and validation qualifier definitions

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		0.0392			E	0.0031			E	0.366			E
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		0.012			E	0.00077			E	0.101			E
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		0.0097			E	0.00071			E	0.11			E
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		0.0113			E	0.0008			E	0.0903			E
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		0.0187			E	0.0012			E	0.152			E
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		0.0175			E	0.0011			E	0.153			E
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		0.0174			E	0.0011			E	0.161			E
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		0.0158			E	0.0012			E	0.135			E
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		0.0735			E	0.004			E	0.42			E
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		0.0113			E	0.00043			E	0.128			E
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		0.013			E	0.00055			E	0.155			E
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		0.0142			E	0.00057			E	0.177			E
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		0.0186			E	0.00085			E	0.252			E
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		0.0172			E	0.00078			E	0.246			E
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		0.017			E	0.00074			E	0.257			E
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		0.0176				0.00076				0.267			
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		0.00014	U			0.00003	U			0.00043	U		
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		0.0085			E	0.0003			E	0.0689			E
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		0.0128			E	0.00046			E	0.153			E
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		0.0134			E	0.00044			E	0.167			E
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		0.0149			E	0.00051			E	0.211			E
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		0.0167			E	0.00072			E	0.238			E
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		0.0149			E	0.00063			E	0.17			E
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		0.0139			E	0.00073			E	0.155			E
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		0.0138			E	0.0007			E	0.17			E
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		0.0143				0.00072				0.184			
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		0.00014	U			0.00003	U			0.00043	U		
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		0.0209			E	0.0005			E	0.323			E
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		0.0205			E	0.00072			E	0.37			E
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		0.0142			E	0.00027			E	0.16			E
10563136	GG-CLV-C	SWSD0083-052621	10563136031	2021-05-26 09:00	AS		0.0054			E	0.00088			E	0.0507			E
10563136	MPTP-CLV-1	SWSD0084-052621	10563136032	2021-05-26 09:00	AS		0.0142			E	0.00064			E	0.103			E
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	0.0092			E	0.00096			E	0.0778			E
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	0.01			E	0.001			E	0.0886			E
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	0.0212			E	0.002			E	0.189			E
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	0.0391			E	0.0032			E	0.391			E
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	0.0764			E	0.0041			E	0.823			E
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	0.0207			E	0.00049			E	0.0484			E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	0.033			E	0.0015			E	0.194			E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	0.0091			E	0.00031			E	0.119			E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	0.0105			E	0.00043			E	0.166			E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	0.013			E	0.00058			E	0.243			E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	0.0281			E	0.0013			E	0.524			E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	0.0129			E	0.000069	J		E	0.0217			E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	0.0075			E	0.00015			E	0.0467			E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	0.0073				0.00016				0.0451			
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	0.00014	U			0.00003	U			0.00043	U		
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	0.011			E	0.00039			E	0.0911			E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	0.0116			E	0.00046			E	0.112			E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	0.0124			E	0.00056			E	0.117			E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	0.0104			E	0.00047			E	0.101			E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	0.0099			E	0.00044			E	0.0989			E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	0.0107			E	0.00049			E	0.111			E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	0.0117			E	0.00067			E	0.138			E
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	0.0111				0.00063				0.13			
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	0.00014	U			0.00003	U			0.00043	U		

See Table A4 for laboratory and validation qualifier definitions

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		27.3			E	0.00032			E	0.432			E	1.28			E
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		10.3			E	0.00011	J		E	0.127			E	0.361			E
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		7.98			E	0.0001	J		E	0.107			E	0.294			E
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		7.42			E	0.00009	J		E	0.091			E	0.344			E
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		11.7			E	0.00014	J		E	0.14			E	0.538			E
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		13.4			E	0.00012	J		E	0.158			E	0.565			E
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		13.3			E	0.00012	J		E	0.146			E	0.579			E
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		10.3			E	0.00011	J		E	0.163			E	0.541			E
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		48.9			E	0.00028			E	0.392			E	0.985			E
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		6.81			E	0.00005	J		E	0.0435			E	0.178			E
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		8.34			E	0.000045	U		E	0.0526			E	0.212			E
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		9.38			E	0.00005	J		E	0.0616			E	0.244			E
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		13.5			E	0.00008	J		E	0.0837			E	0.342			E
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		13.4			E	0.00007	J		E	0.0798			E	0.352			E
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		14.4			E	0.00006	J		E	0.0716			E	0.361			E
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		14.8				0.00006	J			0.0741				0.374			
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		0.012	U			0.000045	U			0.000087	J			0.0023	U		
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		2.11			E	0.000045	U		E	0.013			E	0.0775			E
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		4.61			E	0.000045	U		E	0.0266			E	0.142			E
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		5.32			E	0.00007	J		E	0.032			E	0.161			E
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		6.36			E	0.00007	J		E	0.039			E	0.193			E
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		7.56			E	0.0001	J		E	0.0523			E	0.239			E
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		5.55			E	0.00011	J		E	0.0544			E	0.223			E
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		7.39			E	0.00024			E	0.0767			E	0.288			E
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		7.94			E	0.00016	J		E	0.064			E	0.297			E
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		8.51				0.00017	J			0.0677				0.313			
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		0.012	U			0.000045	U			0.000074	J			0.0023	U		
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		9.01			E	0.00007	J		E	0.0412			E	0.191			E
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		12.5			E	0.00006	J		E	0.0582			E	0.338			E
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		4.57			E	0.000045	U		E	0.02			E	0.0997			E
10563136	GG-CLV-C	SWSD0083-052621	10563136031	2021-05-26 09:00	AS		1.38			E	0.000045	U		E	0.009			E	0.0805			E
10563136	MPTP-CLV-1	SWSD0084-052621	10563136032	2021-05-26 09:00	AS		1.68			E					0.0137			E	1.07			E
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	4.6		J+	S	0.000045	U		E	0.0602			E	0.329			E
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	5.23	M1	J+	S	0.00005	J		E	0.0747			E	0.376			E
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	11.7		J+	S	0.00009	J		E	0.184			E	0.74			E
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	20.6		J+	S	0.00021			E	0.32			E	1.24			E
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	27.1		J+	S	0.00028			E	0.497			E	1.55			E
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	4.04			E	0.000045	U		E	0.0225			E	0.451			E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	19			E	0.00008	J		E	0.129			E	0.415			E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	5.37			E	0.000045	U		E	0.0286			E	0.161			E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	7.5			E	0.000045	U		E	0.0367			E	0.214			E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	10.3			E	0.000045	U		E	0.0475			E	0.296			E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	24.6			E	0.000045	U		E	0.116			E	0.651			E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	4.91			E	0.000045	U		E	0.0034			E	0.0216			E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	1.28			E	0.000045	U		E	0.0056			E	0.0438			E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	1.25				0.000045	U			0.0054				0.042			
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	0.012	U			0.000045	U			0.000051	J			0.0023	U		
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	1.78			E	0.000045	U		E	0.0119			E	0.105			E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	2.25			E	0.000045	U		E	0.019			E	0.131			E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	2.39			E	0.00006	J		E	0.0383			E	0.16			E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	2.77			E	0.00007	J		E	0.0312			E	0.158			E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	3.09			E	0.00008	J		E	0.0324			E	0.164			E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	3.76			E	0.00011	J		E	0.0387			E	0.186			E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	4.99			E	0.000075	J		E	0.044			E	0.301			E
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	4.6				0.000085	J			0.0418				0.287			
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	0.012	U			0.000045	U			0.000078	J			0.0023	U		

See Table A4 for laboratory and validation qualifier definitions

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	0.0095			E	0.00037			E	0.119			E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	0.0096			E	0.00037			E	0.125			E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	0.0124			E	0.0005			E	0.226			E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	0.0135			E	0.00059			E	0.25			E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	0.0153			E	0.00072			E	0.301			E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	0.0166			E	0.00081			E	0.341			E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	0.0168			E	0.00083			E	0.348			E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	0.0197			E	0.0013			E	0.494			E
10565533	GG-CLV-C	SWSD0117-061021	10565533033	2021-06-10 14:49	AS	B	0.005			E	0.0008			E	0.0571			E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	0.0458			E	0.0027			E	0.306			E
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	0.0288			E	0.0022			E	0.224			E
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	0.0412			E	0.0035			E	0.339			E
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	0.0589			E	0.0078			E	0.593			E
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	0.104			E	0.0111			E	0.885			E
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	0.164			E	0.0173			E	1.76	P6		E
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	0.053			E	0.0024			E	0.319			E
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	0.0172			E	0.00076		J	S	0.258			E
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	0.015			E	0.00059		J	S	0.219			E
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	0.0177			E	0.00082		J	S	0.257			E
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	0.0171			E	0.00076		J	S	0.249			E
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	0.019			E	0.00091		J	S	0.287			E
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	0.023			E	0.0012		J	S	0.357			E
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	0.0198				0.00089		J		0.294			
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	0.000083	U			0.000016	J			0.0005	U		
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	0.0175			E	0.0006			E	0.149			E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	0.0177			E	0.00067			E	0.161			E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	0.0246			E	0.0011			E	0.226			E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	0.0269			E	0.0015			E	0.258			E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	0.019			E	0.00099			E	0.185			E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	0.0192			E	0.001			E	0.192			E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	0.0258			E	0.0016			E	0.287			E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	0.0256			E	0.0019			E	0.281			E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	0.0275				0.002				0.304			
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	0.00014	U			0.00003	U			0.00043	U		
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	0.0442			E	0.0023			E	0.28			E
10568970	GG-CLV-C	SWSD0144-070121	10568970026	2021-07-01 14:12	AS	B	0.22			E	0.0161			E	1.98			E
10571347	BG-CLV-1	SWSD0145-072021	10571347001	2021-07-20 16:10	IS1-N	B	0.0678			E	0.0075			E	0.811			E
10571347	BG-CLV-1	SWSD0146-072021	10571347002	2021-07-20 16:10	IS1-D	B	0.0792				0.008				0.922			
10571347	SWQC	SWSD0147-072221	10571347003	2021-07-22 00:00	FB	B	0.000083	U			0.000016	U			0.0005	U		
10571347	GG-CLV-C	SWSD0148-072021	10571347004	2021-07-20 16:10	AS	B	0.0295			E	0.0041			E	0.221			E
10571347	GG-CLV-I	SWSD0149-072021	10571347005	2021-07-20 16:10	AS	B	1.03			E	0.0335			E	7.54			E
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	0.0447			E	0.0035			E	0.342			E
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	0.049			E	0.0048			E	0.409			E
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	0.0479			E	0.0049			E	0.435			E
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	0.0146			E	0.0012			E	0.114			E
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	0.017			E	0.0015			E	0.175			E
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	0.0295			E	0.003			E	0.32			E
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	0.0298			E	0.0025			E	0.301			E
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	0.0324				0.0022				0.332			
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	0.000083	U			0.000016	U			0.0005	U		
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	2.76			E	0.0251			E	27.8			E
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	0.106			E	0.0075			E	0.778	P6		E
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	0.0606			E	0.0038			E	0.413			E
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	0.0568			E	0.0034			E	0.399			E
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	1.21			E	0.0425			E	7.51			E
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	0.878			E	0.0323			E	5.12			E
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	0.868			E	0.0441			E	7.56			E
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	1.7			E	0.0829			E	15.9			E

See Table A4 for laboratory and validation qualifier definitions

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	2.83			E	0.000045	U		E	0.0134			E	0.0872			E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	3.1			E	0.000045	U		E	0.0147			E	0.0923			E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	6.11			E	0.000045	U		E	0.0296			E	0.161			E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	6.94			E	0.000045	U		E	0.0339			E	0.177			E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	8.93			E	0.000045	U		E	0.0423			E	0.224			E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	9.98			E	0.000045	U		E	0.0479			E	0.251			E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	10.2			E	0.000045	U		E	0.0503			E	0.264			E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	14.5			E	0.000045	U		E	0.0664			E	0.402			E
10565533	GG-CLV-C	SWSD0117-061021	10565533033	2021-06-10 14:49	AS	B	0.486			E	0.000045	U		E	0.0038			E	0.0555			E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	30.5			E	0.000098	J		E	0.234			E	0.749			E
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	12.7			E	0.00024		J-	S	0.3			E	0.857			E
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	20.1			E	0.00038		J-	S	0.481			E	1.39			E
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	26.9			E	0.0011		J-	S	1.06			E	2.88			E
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	51.6			E	0.002		J-	S	2.02			E	4.3			E
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	98.5	P6		E	0.0019	M1	J-	S	2.23	P6		E	6.77	P6		E
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	30			E	0.00012	J		E	0.221			E	0.687			E
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	10.3			E	0.000045	J		E	0.0583		J	S	0.296		J	S
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	8.75			E	0.000045	U		E	0.0517		J	S	0.26		J	S
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	10.6			E	0.000052	J		E	0.0715		J	S	0.324		J	S
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	10.3			E	0.00005	J		E	0.0712		J	S	0.32		J	S
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	11.9	P6		E	0.000056	J		E	0.0864		J	S	0.371		J	S
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	14.8			E	0.000072	J		E	0.112		J	S	0.474		J	S
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	12.4				0.000056	J			0.0906		J		0.383		J	
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	0.0121	U			0.000045	U			0.000092	J			0.002	U		
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	2.63			E	0.000062	J		E	0.0296			E	0.152			E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	2.4			E	0.000075	J		E	0.0362			E	0.181			E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	5.05			E	0.00014	J		E	0.0923			E	0.31			E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	6.88			E	0.00035			E	0.169			E	0.451			E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	6.37			E	0.00039			E	0.107			E	0.342			E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	7.67			E	0.00047			E	0.117			E	0.373			E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	12.2			E	0.00068			E	0.183			E	0.559			E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	11.7			E	0.00031			E	0.222			E	0.763			E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	12.6				0.00032				0.235				0.787			
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	0.012	U			0.000045	U			0.000094	J			0.0023	U		
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	27.4	M1		E	0.00015	J		E	0.191			E	0.71			E
10568970	GG-CLV-C	SWSD0144-070121	10568970026	2021-07-01 14:12	AS	B	33.4			E	0.00016	J		E	0.267			E	1.95			E
10571347	BG-CLV-1	SWSD0145-072021	10571347001	2021-07-20 16:10	IS1-N	B	39.3		J	S	0.0005			E	0.86	P6		E	3.22	P6		E
10571347	BG-CLV-1	SWSD0146-072021	10571347002	2021-07-20 16:10	IS1-D	B	50.2		J		0.00056				0.937				3.5			
10571347	SWQC	SWSD0147-072221	10571347003	2021-07-22 00:00	FB	B	0.0121	U			0.000045	U			0.000074	J			0.002	U		
10571347	GG-CLV-C	SWSD0148-072021	10571347004	2021-07-20 16:10	AS	B	1.58			E	0.000045	U		E	0.0108			E	0.339			E
10571347	GG-CLV-I	SWSD0149-072021	10571347005	2021-07-20 16:10	AS	B	89.7			E	0.0012			E	1.38			E	9.71			E
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	13.9			E	0.00055			E	0.43			E	1.69			E
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	18.9			E	0.00082			E	0.574			E	2.12			E
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	25.7			E	0.00057			E	0.69			E	2.08			E
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	7.16			E	0.00017	J		E	0.226			E	0.523			E
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	10.4	P6		E	0.0002			E	0.177			E	0.631	P6		E
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	19.3			E	0.00021			E	0.319			E	1.26			E
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	20.8			E	0.00019	J		E	0.219			E	0.97			E
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	23.3				0.00021				0.234				1			
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	0.0121	U			0.000045	U			0.000072	J			0.002	U		
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	143			E	0.002			E	1.91			E	9.53			E
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	69.1			E	0.0005			E	0.664			E	1.67	P6		E
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	36.4			E	0.00032			E	0.347			E	0.898			E
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	37.5			E	0.00023			E	0.262			E	0.924			E
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	77.9			E	0.0015			E	1.8			E	10.7			E
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	40.1			E	0.00073			E	1.22			E	9.3			E
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	26.3			E	0.00046			E	1.27			E	11.7			E
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	78.9			E	0.0013			E	3.05			E	19.4			E

See Table A4 for laboratory and validation qualifier definitions

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	0.0139			E	0.00076			E	0.197			E
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	0.015			E	0.00082			E	0.213			E
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	0.027			E	0.0015			E	0.423			E
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	0.0276			E	0.0016			E	0.569			E
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	0.0416			E	0.0024			E	1.32			E
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	0.0502			E	0.0033			E	1.6			E
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	0.0578				0.0039				1.76			
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	0.000083	U			0.000019	J			0.0005	U		
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	0.0522			E	0.0009			E	0.19			E
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	0.0537			E	0.001			E	0.217			E
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	0.0568			E	0.0011			E	0.226			E
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	0.0718			E	0.0016			E	0.276			E
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	0.0565			E	0.0015			E	0.318			E
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	0.102			E	0.0036			E	0.69			E
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	0.33			E	0.0071			E	1.82			E
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	0.0117			E	0.00051			E	0.0867			E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	0.0169			E	0.0009			E	0.159			E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	0.0151			E	0.00071			E	0.117			E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	0.0122			E	0.0018			E	0.0859			E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	0.0138			E	0.00051			E	0.105			E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	0.0141			E	0.00063			E	0.116			E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	0.0178			E	0.00081			E	0.14			E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	0.0289			E	0.0018			E	0.273			E
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	0.0359			E	0.0015			E	0.807			E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	0.059			E	0.0023			E	1.63			E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	0.114			E	0.0052			E	3.39			E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	0.109				0.005				3.26			
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	0.000083	U			0.000016	U			0.0005	U		
10573163	GG-CLV-C	SWSD0195-080121	10573163046	2021-08-01 17:40	AS	B	0.007			E	0.00061			E	0.0592			E
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	0.128			E	0.0095			E	0.959			E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	0.659			E	0.0123			E	3.15			E
10573163	MPTP-CLV-1	SWSD0198-080121	10573163049	2021-08-01 20:54	AS	B	0.222			E	0.0073			E	1.69			E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	0.0073			E	0.00052			E	0.0539			E
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	0.0072			E	0.00062			E	0.0564			E
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	0.0142			E	0.0014			E	0.138			E
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	0.0243			E	0.0022			E	0.231			E
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	0.0059			E	0.00024			E	0.0362			E
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	0.0119			E	0.0005			E	0.107			E
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	0.0132			E	0.00041			E	0.057			E
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	0.048			E	0.0028			E	0.334			E
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	0.0063			E	0.00023			E	0.0805			E
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	0.0078			E	0.00034			E	0.122			E
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	0.0194			E	0.0012			E	0.464			E
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	0.0414			E	0.0026			E	1.01			E
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	0.11			E	0.0081			E	3.26			E
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	0.0597			E	0.0038			E	1.71			E
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	0.0645				0.0044				1.81			
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	0.000083	U			0.000016	U			0.00061	J		
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	0.0099			E	0.00021			E	0.0743			E
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	0.009			E	0.0002			E	0.0662			E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	0.0121			E	0.00042			E	0.141			E
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	0.0141			E	0.00057			E	0.187			E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	0.0145			E	0.00062			E	0.195			E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	0.0135			E	0.00074			E	0.141			E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	0.0129			E	0.00087			E	0.14			E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	0.0113			E	0.00043			E	0.218			E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	0.0262			E	0.0012			E	0.664			E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	0.0588			E	0.0031			E	2.15			E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	0.0622				0.0034				2.24			
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	0.000083	U			0.000016	U			0.0005	U		
10574254	GG-CLV-I	SWSD0227-080821	10574254029	2021-08-08 18:43	AS	B	0.131			E	0.0067			E	3.07			E

See Table A4 for laboratory and validation qualifier definitions

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	7.68			E	0.000091	J,R1	J	S	0.0532			E	0.256			E
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	9.47			E	0.00009	J	J	S	0.0855			E	0.294			E
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	19			E	0.00015	J	J	S	0.153			E	0.579			E
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	22.2			E	0.00013	J	J	S	0.132			E	0.644			E
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	41.7			E	0.00022	J	J	S	0.197			E	1.06			E
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	47			E	0.00031		J	S	0.256			E	1.31			E
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	51.7				0.00042		J		0.312				1.59			
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	0.0121	U			0.000054	U			0.000092	J			0.002	U		
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	11.5			E	0.00015	J		E	0.0846			E	0.299			E
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	13.6			E	0.00016	J		E	0.094			E	0.326			E
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	13.9			E	0.00012	J		E	0.109			E	0.365			E
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	16.9			E	0.00017	J		E	0.154			E	0.497			E
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	19.9			E	0.00025			E	0.129			E	0.453			E
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	49.6			E	0.0005			E	0.269			E	0.987			E
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	104			E	0.0015			E	0.452			E	2.06			E
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	2.76			E	0.00032			E	0.056			E	0.17			E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	6.82			E	0.00043			E	0.108			E	0.362			E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	2.14			E	0.000084	J		E	0.0454			E	0.198			E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	1.1			E	0.000055	J		E	0.0221			E	0.105			E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	2.07			E	0.0001	J		E	0.0418			E	0.154			E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	2.97			E	0.0002	J		E	0.0624			E	0.209			E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	4.22			E	0.00011	J		E	0.105			E	0.295			E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	9.64			E	0.00022			E	0.209			E	0.646			E
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	22			E	0.00011	J		E	0.124			E	0.536			E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	37.2			E	0.00019	J		E	0.207			E	0.9			E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	68.9			E	0.00033			E	0.436			E	1.82			E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	69.5				0.00036				0.414				1.77			
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	0.0121	U			0.000045	U			0.000095	J			0.002	U		
10573163	GG-CLV-C	SWSD0195-080121	10573163046	2021-08-01 17:40	AS	B	0.926			E	0.000045	U		E	0.0059			E	0.0777			E
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	79.4			E	0.00042			E	0.871			E	2.32			E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	55.6			E	0.00099			E	0.836			E	3.64			E
10573163	MPTP-CLV-1	SWSD0198-080121	10573163049	2021-08-01 20:54	AS	B	91.5			E	0.00074			E	0.512			E	2.87			E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	2.12		J+	S	0.000048	J		E	0.0587			E	0.195			E
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	2.37			E	0.000058	J		E	0.0688			E	0.226			E
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	7.93			E	0.00012	J		E	0.184			E	0.575			E
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	14.1			E	0.00019	J		E	0.314			E	1			E
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	1.92		J+	S	0.000045	U		E	0.0122			E	0.229			E
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	7.39			E	0.000045	U		E	0.0398			E	0.51			E
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	4.24			E	0.000045	U		E	0.0384			E	0.112			E
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	33.5			E	0.00015	J		E	0.246			E	0.796			E
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	2.52			E	0.000045	U		E	0.0186			E	0.072			E
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	3.96			E	0.000045	U		E	0.03			E	0.115			E
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	15.3	P6		E	0.000071	J		E	0.0971			E	0.442			E
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	34.8			E	0.00029			E	0.228			E	1.1			E
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	102			E	0.00029			E	0.674			E	3.16			E
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	46.8			E	0.00023			E	0.326			E	1.52			E
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	50.8				0.00023				0.369				1.75			
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	0.218				0.000045	U			0.0001				0.002	U		
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	1.26			E	0.000045	U		E	0.0122			E	0.0608			E
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	1.4			E	0.000045	U		E	0.0119			E	0.0599			E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	4.02			E	0.000049	J		E	0.0335			E	0.126			E
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	5.36			E	0.000082	J		E	0.047			E	0.174			E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	5.72			E	0.000083	J		E	0.0493			E	0.181			E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	6.25			E	0.00037			E	0.0814			E	0.245			E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	7.04			E	0.00021			E	0.0742			E	0.287			E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	6.23			E	0.000045	U		E	0.0336			E	0.141			E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	18.1			E	0.000097	J		E	0.0943			E	0.401			E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	49.1			E	0.00024			E	0.237			E	1.25			E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	52.8				0.00024				0.249				1.32			
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	0.0121	U			0.000045	U			0.00009	J			0.002	U		
10574254	GG-CLV-I	SWSD0227-080821	10574254029	2021-08-08 18:43	AS	B	10.2			E	0.00077			E	0.228			E	2.43			E

See Table A4 for laboratory and validation qualifier definitions

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	0.0087			E	0.00082			E	0.0715			E
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	0.0098			E	0.001			E	0.0857			E
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	0.0132			E	0.0013			E	0.12			E
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	0.0075			E	0.00064			E	0.0811			E
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	0.0047			E	0.00018			E	0.0265			E
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	0.0057			E	0.00021			E	0.0364			E
10575529	GG-CLV-D	SWSD0234-081821	10575529007	2021-08-18 05:51	IS2	B	0.0141			E	0.00077			E	0.0967			E
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	0.0138			E	0.00064			E	0.0819			E
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	0.61			E	0.015			E	3.62			E
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	0.0108			E	0.00057			E	0.152			E
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	0.0379			E	0.0025			E	0.869	P6		E
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	0.0404				0.0028				0.955			
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	0.000083	U			0.000016	U			0.0005	U		
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	0.023			E	0.00084			E	0.438			E
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	0.0228			E	0.00089			E	0.436			E
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	0.0239			E	0.0011			E	0.523			E
10575529	TX-HD-OUT	SWSD0244-081821	10575529017	2021-08-18 02:16	IS3	B	0.0223			E	0.001			E	0.585	P6		E
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	0.0356			E	0.0018			E	0.884			E
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	0.0326				0.0016				0.854			
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	0.000083	U			0.000016	U			0.00051	J		
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	0.0191			E	0.001			E	0.116			E
10575529	GG-CLV-I	SWSD0250-081821	10575529023	2021-08-18 01:43	AS	B	0.359			E	0.0098			E	2.08			E
10575529	MPTP-CLV-1	SWSD0251-081821	10575529024	2021-08-18 01:43	AS	B	0.0172			E	0.00096			E	0.196			E
10575529	GG-CLV-D	SWSD0252-082021	10575529025	2021-08-20 05:06	IS3	B	0.0084			E	0.00023			E	0.0384			E
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	0.0088			E	0.00023			E	0.0375			E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	0.0068			E	0.0002			E	0.0276			E
10575529	MPTP-CLV-1	SWSD0255-082021	10575529028	2021-08-20 02:53	AS	B	0.0055			E	0.0004			E	0.0329	B		E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	0.0103			E	0.00086			E	0.0771			E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		0.0101			E	0.00099			E	0.0806			E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	0.0093			E	0.001			E	0.0789			E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	0.0066			E	0.00073			E	0.0628			E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	0.0114			E	0.00093			E	0.0956			E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	0.0048			E	0.00028			E	0.0256			E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	0.005			E	0.00021			E	0.0252			E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	0.0101			E	0.00072			E	0.0282			E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	0.0298			E	0.0015			E	0.171			E

See Table A4 for laboratory and validation qualifier definitions

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	3.45			E	0.000062	J		E	0.0968			E	0.332			E
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	4.44			E	0.00008	J		E	0.12			E	0.412			E
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	6.59			E	0.000084	J		E	0.149			E	0.526			E
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	2.6			E	0.000058	J		E	0.0484			E	0.253			E
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	1.34			E	0.000045	U		E	0.0102			E	0.139			E
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	1.95			E	0.000045	U		E	0.0109			E	0.186			E
10575529	GG-CLV-D	SWSD0234-081821	10575529007	2021-08-18 05:51	IS2	B	4.96			E					0.0398			E	0.126			E
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	4.27			E	0.000053	J		E	0.0342			E	0.111			E
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	47.1			E	0.00087			E	1.21			E	5.32			E
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	6.44			E	0.000045	U		E	0.0608		J+	S	0.19			E
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	31.1	P6		E	0.00015	J		E	0.209	M1	J+	S	0.964	P6		E
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	33.9				0.00021				0.222		J+		1.06			
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	0.0121	U			0.000045	U			0.00011	B			0.002	U		
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	12.5			E	0.000066	J		E	0.0705			E	0.273			E
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	12.6			E	0.000068	J		E	0.0707			E	0.28			E
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	14.1			E	0.000088	J		E	0.0822			E	0.339			E
10575529	TX-HD-OUT	SWSD0244-081821	10575529017	2021-08-18 02:16	IS3	B	15.4	P6		E	0.000069	J		E	0.0791			E	0.378			E
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	20.8			E	0.000093	J		E	0.136			E	0.636			E
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	20.4				0.00011	J			0.124				0.559			
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	0.0121	U			0.000045	U			0.00012				0.002	U		
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	9.22			E	0.000062	J		E	0.087			E	0.391			E
10575529	GG-CLV-I	SWSD0250-081821	10575529023	2021-08-18 01:43	AS	B	35.2			E	0.00073			E	0.535			E	2.78			E
10575529	MPTP-CLV-1	SWSD0251-081821	10575529024	2021-08-18 01:43	AS	B	6.13			E					0.0254			E	2.49			E
10575529	GG-CLV-D	SWSD0252-082021	10575529025	2021-08-20 05:06	IS3	B	1.93			E	0.000045	U		E	0.0158			E	0.0503			E
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	1.95			E	0.000045	U		E	0.016			E	0.0489			E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	1.49			E	0.000045	U		E	0.0129			E	0.0863			E
10575529	MPTP-CLV-1	SWSD0255-082021	10575529028	2021-08-20 02:53	AS	B	0.594			E					0.0031	B		E	0.63			E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	3.92			E	0.000045	U		E	0.114			E	0.35			E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		4.47			E	0.00005	J		E	0.123			E	0.391			E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	4.09			E	0.000045	U		E	0.113			E	0.379			E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	3.27			E	0.000045	U		E	0.0753			E	0.292			E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	5.09			E	0.000045	U		E	0.103			E	0.382			E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	1.58			E	0.000045	U		E	0.0086			E	0.288			E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	1.32			E	0.000045	U		E	0.0069			E	0.233			E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	2.01			E	0.000045	U		E	0.0077			E	1.61			E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	17.1			E	0.00007	J		E	0.136			E	0.383			E

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	Lab Q	Val Q	Status	CdTR (mg/L)	Lab Q	Val Q	Status	CuTR (mg/L)	Lab Q	Val Q	Status
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	0.0068			E	0.00027			E	0.0892			E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	0.0058			E	0.00027			E	0.072			E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	0.0096			E	0.00054			E	0.158			E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	0.0146			E	0.001			E	0.299			E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	0.0091			E	0.00033			E	0.111			E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	0.0096			E	0.00046			E	0.195			E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	0.0103				0.0005				0.21			
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	0.000083	U			0.000021	J			0.0005	U		
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	0.0189			E	0.00057			E	0.0723			E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	0.0187			E	0.00067			E	0.0903			E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	0.0181			E	0.00069			E	0.0815			E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	0.0275			E	0.00093			E	0.132			E
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	0.0223			E	0.00071			E	0.369			E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	0.0208			E	0.00066			E	0.347			E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	0.0206			E	0.00067			E	0.348			E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	0.0192			E	0.00066			E	0.332			E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	0.0203			E	0.0007			E	0.347			E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	0.0404			E	0.0012			E	0.567			E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	0.0675			E	0.0015			E	0.792			E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	0.0252			E	0.00098			E	0.46			E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	0.0239				0.00083				0.446			
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	0.000083	U			0.000023	J,B			0.0005	U		
10576049	GG-CLV-C	SWSD0287-082121	10576049032	2021-08-21 18:39	AS	B	0.0015			E	0.00012	B		E	0.018			E
10576049	GG-CLV-D	SWSD0288-082121	10576049033	2021-08-21 18:39	AS	B	0.0348			E	0.0023			E	0.228	M1	J-	S
10576049	GG-CLV-I	SWSD0289-082121	10576049034	2021-08-21 18:39	AS	B	0.307			E	0.0072			E	1.62			E
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	0.0144			E	0.002			E	0.0743			E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	0.0147			E	0.0021			E	0.0775			E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	0.0133			E	0.002			E	0.0737			E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	0.0141			E	0.0023			E	0.0809			E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	0.0147			E	0.0024			E	0.0882			E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	0.015				0.0025				0.0918			
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	0.000083	U			0.000016	U			0.0005	U		

See Table A4 for laboratory and validation qualifier definitions

Table 13a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeTR (mg/L)	Lab Q	Val Q	Status	HgTR (mg/L)	Lab Q	Val Q	Status	PbTR (mg/L)	Lab Q	Val Q	Status	ZnTR (mg/L)	Lab Q	Val Q	Status
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	2.92			E	0.000045	U		E	0.0289			E	0.101			E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	2.74			E	0.000045	U		E	0.0244			E	0.0866			E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	6.26			E	0.000045	U		E	0.0464			E	0.192			E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	10.8			E	0.000045	U		E	0.0871			E	0.361			E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	4.18			E	0.000045	U		E	0.0293			E	0.128			E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	5.53			E	0.000045	U		E	0.044			E	0.196			E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	6.58				0.000045	U			0.0468				0.203			
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	0.0121	U			0.000045	U			0.0001				0.002	U		
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	5.28			E	0.000045	U		E	0.0693			E	0.134			E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	6.36			E	0.000045	U		E	0.0786			E	0.157			E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	5.76			E	0.000045	U		E	0.0749			E	0.15			E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	10.1	P6		E	0.00012	J		E	0.0963			E	0.238	M1	J-	S
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	11.9			E	0.000074	J		E	0.0593			E	0.218			E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	11.3			E	0.000075	J		E	0.0569			E	0.198	B		E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	11.4			E	0.000076	J		E	0.0561			E	0.195	B		E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	10.9			E	0.000073	J		E	0.0548			E	0.208			E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	11.8			E	0.00007	J		E	0.0574			E	0.201			E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	21			E	0.00015	J		E	0.1			E	0.332			E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	26.1			E	0.00024			E	0.131			E	0.443			E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	16.2			E	0.0001	J		E	0.0954			E	0.372			E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	15.3				0.00011	J			0.0828				0.322			
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	0.0121	U			0.000045	U			0.000098	J,B			0.0031	J,B		
10576049	GG-CLV-C	SWSD0287-082121	10576049032	2021-08-21 18:39	AS	B	0.107			E	0.000045	U		E	0.00067		J+	S	0.0219		J+	S
10576049	GG-CLV-D	SWSD0288-082121	10576049033	2021-08-21 18:39	AS	B	21	P6		E	0.00014	J		E	0.202			E	0.656	P6		E
10576049	GG-CLV-I	SWSD0289-082121	10576049034	2021-08-21 18:39	AS	B	23.6			E	0.00073			E	0.412			E	1.92			E
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	0.573			E	0.000048	J		E	0.0176			E	0.458			E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	0.592			E	0.000045	U		E	0.0184			E	0.485			E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	0.535			E	0.000047	J		E	0.0168			E	0.466			E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	0.569			E	0.000045	U		E	0.0177			E	0.52			E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	0.871			E	0.000052	J		E	0.0228			E	0.585			E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	0.886				0.000056	J			0.0233				0.602			
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	0.0121	U			0.000045	U			0.000064	J,B	UJ		0.002	U		

See Table A4 for laboratory and validation qualifier definitions

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	0.011			E	0.000069	J		E	0.024			E
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	0.011				0.00008				0.026			
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	0.00014	U			0.00003	U			0.00043	U		
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	0.011			E	0.000074	J		E	0.025			E
10560269	GG-CLV-D	SWSD0005-050721	10560269005	2021-05-07 17:20	FG	B	0.011			E	0.00025			E	0.03			E
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	0.0042			E	0.00026			E	0.014			E
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	0.004			E	0.0002			E	0.011			E
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	0.0039			E	0.00015			E	0.012			E
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	0.0032			E	0.0001			E	0.016			E
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	0.0036			E	0.0001			E	0.018			E
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	0.0043			E	0.00013			E	0.023			E
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	0.0051			E	0.00015			E	0.021			E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	0.0056			E	0.000066	J		E	0.028			E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	0.0075			E	0.00003	U		E	0.014			E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	0.007			E	0.000039	J		E	0.017			E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	0.0071				0.000045	J			0.016			
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	0.00014	U			0.00003	U			0.00043	U		
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	0.0067			E	0.000079	J		E	0.014			E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	0.0043			E	0.0001			E	0.012		J	S
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	0.0063			E	0.00032			E	0.032		J	S
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	0.0037			E	0.00014			E	0.0097		J	S
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	0.0039			E	0.00014			E	0.011		J	S
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	0.0042			E	0.00019			E	0.011		J	S
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	0.0038			E	0.0002			E	0.013		J	S
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	0.0039			E	0.00017			E	0.014		J	S
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	0.0038			E	0.00018			E	0.013		J	S
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	0.0049			E	0.00003	U		E	0.0021		J	S
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	0.005			E	0.00003	U		E	0.0023		J	S
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	0.005			E	0.00003	U		E	0.003		J	S
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	0.0048			E	0.00003	U		E	0.0025		J	S
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	0.005			E	0.00003	U		E	0.0023		J	S
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	0.0049			E	0.00003	U		E	0.0028		J	S
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	0.0047			E	0.00003	U		E	0.0028		J	S
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	0.0047			E	0.00003	U		E	0.0022		J	S
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	0.0047				0.00003	U			0.0046		J	
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	0.00014	U			0.00003	U			0.00043	U		
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	0.012			E	0.00011			E	0.019		J	S
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	0.0074			E	0.00003	U		E	0.029			E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	0.0062			E	0.00003	U		E	0.018			E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	0.0057			E	0.000034	J		E	0.021			E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	0.0041			E	0.00003	U		E	0.017			E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	0.0044			E	0.00003	U		E	0.018			E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	0.0047				0.00003	U			0.019			
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	0.00014	U			0.00003	U			0.00043	U		
10562410	GG-CLV-C	SWSD0049-052321	10562410028	2021-05-23 17:00	AS	B	0.0017			E	0.00037			E	0.012			E
10562410	GG-CLV-D	SWSD0050-052321	10562410029	2021-05-23 17:00	AS	B	0.013			E	0.00011			E	0.019			E
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		0.0054			E	0.000054	J		E	0.0054		J+	S
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		0.0028			E	0.00007	J		E	0.01		J+	S
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		0.002			E	0.00003	U		E	0.0043		J+	S
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		0.003			E	0.000074	J		E	0.0086		J+	S
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		0.004			E	0.00012			E	0.016		J+	S
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		0.0031			E	0.000094			E	0.014		J+	S
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		0.0032			E	0.00014			E	0.02			E
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		0.0033			E	0.00014			E	0.01		J+	S

See Table A4 for laboratory and validation qualifier definitions

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	0.083			E	0.000045	U		E	0.00074			E	0.005			E
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	0.099				0.000045	U			0.00088				0.0057			
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	0.012	U			0.000045	U			0.000043	U			0.0023	U		
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	0.027	J		E	0.000045	U		E	0.0002			E	0.0054			E
10560269	GG-CLV-D	SWSD0005-050721	10560269005	2021-05-07 17:20	FG	B	0.12			E	0.000045	U		E	0.00094			E	0.0069			E
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	0.012	U		E	0.000045	U		E	0.00011			E	0.08			E
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	0.033	J		E	0.000045	U		E	0.00057			E	0.043			E
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	0.03	J		E	0.000045	U		E	0.00048			E	0.04			E
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	0.053			E	0.000045	U		E	0.0007			E	0.035			E
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	0.052			E	0.000045	U		E	0.00071			E	0.038			E
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	0.053			E	0.000045	U		E	0.00084			E	0.043			E
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	0.064			E	0.000045	U		E	0.00096			E	0.058			E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	0.12			E	0.000045	U		E	0.00068			E	0.016			E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	0.13			E	0.000045	U		E	0.00052			E	0.0091			E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	0.099			E	0.000045	U		E	0.00034			E	0.011			E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	0.1				0.000045	U			0.00028				0.011			
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	0.012	U			0.000045	U			0.000043	U			0.0023	U		
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	0.13			E	0.000045	U		E	0.0012			E	0.0062			E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	0.097			E	0.000045	U		E	0.0015			E	0.026			E
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	1.7			E	0.000045	U		E	0.027			E	0.12			E
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	0.023	J		E	0.000045	U		E	0.00033			E	0.039			E
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	0.13			E	0.000045	U		E	0.0016			E	0.039			E
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	0.057			E	0.000045	U		E	0.00071			E	0.05			E
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	0.018	J		E	0.000045	U		E	0.00036			E	0.055			E
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	0.017	J		E	0.000045	U		E	0.00034			E	0.048			E
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	0.014	J		E	0.000045	U		E	0.00028			E	0.062			E
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	0.036	J		E	0.000045	U		E	0.000043	U		E	0.04			E
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	0.041	J		E	0.000045	U		E	0.000063	J		E	0.039			E
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	0.038	J		E	0.000045	U		E	0.000043	U		E	0.041			E
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	0.04	J		E	0.000045	U		E	0.000043	U		E	0.044			E
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	0.037	J		E	0.000045	U		E	0.000043	U		E	0.041			E
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	0.038	J		E	0.000045	U		E	0.000045	J		E	0.042			E
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	0.037	J		E	0.000045	U		E	0.000072	J		E	0.039			E
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	0.025	J		E	0.000045	U		E	0.000043	U		E	0.04			E
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	0.031	J			0.000045	U			0.00014				0.04			
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	0.012	U			0.000045	U			0.000043	U			0.0023	U		
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	0.058			E	0.000045	U		E	0.00059			E	0.0038	J		E
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	0.27			E	0.000045	U		E	0.0013			E	0.012			E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	0.058	B		E	0.000045	U		E	0.00047			E	0.0097			E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	0.087	B		E	0.000045	U		E	0.00056			E	0.022			E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	0.078	B		E	0.000045	U		E	0.0004			E	0.012			E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	0.088	B		E	0.000045	U		E	0.0004			E	0.011			E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	0.099	B			0.000045	U			0.00041				0.013			
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	0.012	U			0.000045	U			0.000043	U			0.0023	U		
10562410	GG-CLV-C	SWSD0049-052321	10562410028	2021-05-23 17:00	AS	B	0.013	J,B		E	0.000045	U		E	0.00013			E	0.035			E
10562410	GG-CLV-D	SWSD0050-052321	10562410029	2021-05-23 17:00	AS	B	0.052	B		E	0.000045	U		E	0.00064			E	0.0039	J		E
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		0.038	J		E	0.000045	U		E	0.00067		J+	S	0.0093			E
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		0.68			E	0.000045	U		E	0.0076			E	0.027			E
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		0.043	J		E	0.000045	U		E	0.00065		J+	S	0.0079			E
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		0.049	J		E	0.000045	U		E	0.00069		J+	S	0.026			E
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		0.092			E	0.000045	U		E	0.00098			E	0.038			E
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		0.07			E	0.000045	U		E	0.001			E	0.033			E
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		0.14			E	0.000045	U		E	0.0016			E	0.055			E
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		0.018	J		E	0.000045	U		E	0.00041		J+	S	0.045			E

See Table A4 for laboratory and validation qualifier definitions

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		0.013			E	0.000061	J		E	0.021			E
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		0.004			E	0.000044	J		E	0.016		J+	S
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		0.0049			E	0.00013			E	0.031			E
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		0.0037			E	0.000055	J		E	0.016		J+	S
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		0.0044			E	0.000066	J		E	0.022			E
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		0.004			E	0.000065	J		E	0.022			E
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		0.0031			E	0.000042	J		E	0.014		J+	S
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		0.0031				0.000034	J			0.013		J+	
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		0.00014	U			0.00003	U			0.0017			
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		0.0065			E	0.00013			E	0.022			E
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		0.0069			E	0.00011			E	0.034			E
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		0.007			E	0.00011			E	0.036			E
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		0.0068			E	0.000095			E	0.032			E
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		0.0066			E	0.00011			E	0.033			E
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		0.0079			E	0.0002			E	0.05			E
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		0.0052			E	0.00013			E	0.022			E
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		0.0054			E	0.00016			E	0.03			E
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		0.0053				0.00015				0.028			
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		0.00014	U			0.00003	U			0.00043	U		
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		0.0071			E	0.000051	J		E	0.035			E
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		0.006			E	0.000072	J		E	0.035			E
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		0.0087			E	0.000063	J		E	0.039			E
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	0.0039			E	0.00092			E	0.022			E
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	0.0038			E	0.00027			E	0.023			E
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	0.004			E	0.00028			E	0.022			E
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	0.0044			E	0.00024			E	0.025			E
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	0.0082			E	0.0003			E	0.043			E
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	0.0089			E	0.000067	J		E	0.011			E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	0.0097			E	0.00011			E	0.042			E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	0.0037			E	0.000076	J		E	0.031			E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	0.0036			E	0.000095			E	0.04			E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	0.0035			E	0.0001			E	0.043			E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	0.0073			E	0.000035	J		E	0.017			E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	0.0091			E	0.00003	U		E	0.0024			E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	0.006			E	0.000083			E	0.023			E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	0.0062				0.000091				0.024			
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	0.00014	U			0.00003	U			0.00043	U		
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	0.0085			E	0.00026			E	0.053			E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	0.0081			E	0.00028			E	0.055			E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	0.0079			E	0.00026			E	0.06			E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	0.0064			E	0.00022			E	0.04			E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	0.006			E	0.00019			E	0.039			E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	0.0062			E	0.0002			E	0.041			E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	0.0061			E	0.00026			E	0.041			E
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	0.0059				0.00024				0.039			
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	0.00014	U			0.00003	U			0.00043	U		
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	0.0057			E	0.00016			E	0.037			E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	0.0054			E	0.00012			E	0.035			E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	0.0051			E	0.00012			E	0.039			E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	0.005			E	0.00013			E	0.038			E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	0.005			E	0.00013			E	0.039			E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	0.0048			E	0.00015			E	0.038			E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	0.0049			E	0.00015			E	0.039			E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	0.0046			E	0.00022			E	0.048			E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	0.0078			E	0.00011			E	0.029			E
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	0.0075			E	0.00035			E	0.034		J+	S
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	0.0079			E	0.00026			E	0.031		J+	S
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	0.0081			E	0.00037			E	0.026		J+	S
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	0.0072			E	0.00026			E	0.025		J+	S
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	0.012			E	0.00015			E	0.013		J+	S
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	0.011			E	0.00014			E	0.05		J+	S

See Table A4 for laboratory and validation qualifier definitions

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		0.19			E	0.000045	U		E	0.0014			E	0.0064			E
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		0.2			E	0.000045	U		E	0.0014			E	0.011			E
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		1.1			E	0.000045	U		E	0.0075			E	0.033			E
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		0.13			E	0.000045	U		E	0.00095			E	0.0077			E
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		0.46			E	0.000045	U		E	0.003			E	0.016			E
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		0.62			E	0.000045	U		E	0.0037			E	0.021			E
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		0.12			E	0.000045	U		E	0.00074		J+	S	0.011			E
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		0.13				0.000045	U			0.00072		J+		0.011			
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		0.012	U			0.000045	U			0.000082	J			0.0023	U		
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		0.12			E	0.000045	U		E	0.00083			E	0.023			E
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		0.2			E	0.000045	U		E	0.001			E	0.022			E
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		0.39			E	0.000045	U		E	0.002			E	0.026			E
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		0.17			E	0.000045	U		E	0.0012			E	0.021			E
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		0.23			E	0.000045	U		E	0.0015			E	0.024			E
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		0.93			E	0.000045	U		E	0.0087			E	0.056			E
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		0.14			E	0.000045	U		E	0.0014			E	0.028			E
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		0.4			E	0.000045	U		E	0.0031			E	0.043			E
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		0.36				0.000045	U			0.0029				0.041			
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		0.012	U			0.000045	U			0.000043	U			0.0023	U		
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		0.38			E	0.000045	U		E	0.0014			E	0.012			E
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		0.33			E	0.000045	U		E	0.0014			E	0.026			E
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		0.69			E	0.000045	U		E	0.0027			E	0.02			E
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	0.12			E	0.000045	U		E	0.0015			E	0.096			E
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	0.094			E	0.000045	U		E	0.0012			E	0.091			E
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	0.13			E	0.000045	U		E	0.0022			E	0.093			E
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	0.09			E	0.000045	U		E	0.0017			E	0.12			E
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	0.27			E	0.000045	U		E	0.0058			E	0.13			E
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	0.016	J		E	0.000045	U		E	0.000073	J		E	0.07			E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	0.088			E	0.000045	U		E	0.00075			E	0.0098			E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	0.11			E	0.000045	U		E	0.00076			E	0.026			E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	0.12			E	0.000045	U		E	0.00096			E	0.038			E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	0.11			E	0.000045	U		E	0.00063			E	0.038			E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	0.73			E	0.000045	U		E	0.0011			E	0.032			E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	2.7			E	0.000045	U		E	0.00017			E	0.0025	J		E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	0.18			E	0.000045	U		E	0.00057			E	0.017			E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	0.18				0.000045	U			0.00055				0.019			
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	0.012	U			0.000045	U			0.000043	U			0.0023	U		
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	0.093			E	0.000045	U		E	0.00073			E	0.051			E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	0.091			E	0.000045	U		E	0.00084			E	0.052			E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	0.1			E	0.000045	U		E	0.002			E	0.056			E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	0.2			E	0.000045	U		E	0.0022			E	0.051			E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	0.093			E	0.000045	U		E	0.0011			E	0.051			E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	0.097			E	0.000045	U		E	0.0011			E	0.049			E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	0.11			E	0.000045	U		E	0.0012			E	0.11			E
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	0.092				0.000045	U			0.001				0.11			
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	0.012	U			0.000045	U			0.000043	U			0.0023	U		
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	0.18			E	0.000045	U		E	0.00085			E	0.019			E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	0.13			E	0.000045	U		E	0.00064			E	0.019			E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	0.081			E	0.000045	U		E	0.00044			E	0.018			E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	0.09			E	0.000045	U		E	0.0005			E	0.018			E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	0.09			E	0.000045	U		E	0.00052			E	0.017			E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	0.08			E	0.000045	U		E	0.00046			E	0.017			E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	0.087			E	0.000045	U		E	0.00052			E	0.017			E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	0.072			E	0.000045	U		E	0.00043			E	0.026			E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	0.13			E	0.000045	U		E	0.001			E	0.015			E
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	0.11			E	0.000045	U		E	0.0034			E	0.049			E
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	0.099			E	0.000045	U		E	0.003			E	0.037			E
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	0.12			E	0.000045	U		E	0.0097			E	0.075			E
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	0.13			E	0.000045	U		E	0.0054			E	0.039			E
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	0.24			E	0.000045	U		E	0.0071			E	0.06			E
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	0.067			E	0.000045	U		E	0.00061		J+	S	0.016			E

See Table A4 for laboratory and validation qualifier definitions

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	0.0063			E	0.00013			E	0.03		J+	S
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	0.0062			E	0.00014			E	0.034		J+	S
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	0.0058			E	0.00012			E	0.025		J+	S
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	0.0056			E	0.00011			E	0.023		J+	S
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	0.0056			E	0.00012			E	0.023		J+	S
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	0.0057			E	0.00011			E	0.023		J+	S
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	0.0058				0.00011				0.023		J+	
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	0.00014	U			0.00003	U			0.0055			
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	0.013			E	0.00034			E	0.068			E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	0.013			E	0.00036			E	0.069			E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	0.015			E	0.00048			E	0.067			E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	0.011			E	0.0005			E	0.056			E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	0.0092			E	0.00036			E	0.046			E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	0.008			E	0.00032			E	0.044			E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	0.0087			E	0.00025			E	0.04			E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	0.0066			E	0.00032			E	0.053			E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	0.0066				0.0003				0.051			
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	0.00014	U			0.00003	U			0.00043	U		
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	0.0088			E	0.0002			E	0.043			E
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	0.012			E	0.00026			E	0.033			E
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	0.0096			E	0.00019			E	0.025			E
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	0.007			E	0.00013			E	0.019			E
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	0.005			E	0.00022			E	0.022			E
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	0.0048			E	0.000097			E	0.019			E
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	0.0057			E	0.000086			E	0.021			E
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	0.0059			E	0.00016			E	0.017			E
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	0.0061				0.00016				0.017			
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	0.000083	U			0.000016	U			0.0012			
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	0.054			E	0.012			E	2.4			E
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	0.015			E	0.00011			E	0.027			E
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	0.016			E	0.00017			E	0.039			E
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	0.013			E	0.00019			E	0.051			E
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	0.12			E	0.013			E	0.55			E
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	0.13			E	0.013			E	0.58			E
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	0.13			E	0.012			E	0.55			E
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	0.13			E	0.011			E	0.58			E
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	0.0053			E	0.000086			E	0.026			E
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	0.0076			E	0.00025			E	0.058			E
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	0.0055			E	0.000074	J		E	0.012			E
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	0.0047			E	0.00004	J		E	0.017			E
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	0.0074			E	0.000036	J		E	0.0088			E
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	0.0072			E	0.000024	J		E	0.0077			E
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	0.0071				0.000024	J			0.008			
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	0.000083	U			0.000016	U			0.0005	U		
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	0.019			E	0.000088			E	0.018			E
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	0.019			E	0.000075	J		E	0.017			E
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	0.02			E	0.000071	J		E	0.019			E
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	0.022			E	0.000088			E	0.021			E
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	0.02			E	0.00013			E	0.032			E
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	0.017			E	0.000078	J		E	0.029			E
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	0.081			E	0.000088			E	0.083			E
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	0.0074			E	0.00013			E	0.03			E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	0.0058			E	0.0001			E	0.023			E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	0.011			E	0.00026			E	0.06			E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	0.012			E	0.0016			E	0.071			E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	0.0091			E	0.00024			E	0.049			E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	0.0096			E	0.0003			E	0.054			E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	0.0092			E	0.00025			E	0.05			E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	0.0096			E	0.00035			E	0.049			E

See Table A4 for laboratory and validation qualifier definitions

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	0.22			E	0.000045	U		E	0.0012		J+	S	0.042			E
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	0.32			E	0.000045	U		E	0.002			E	0.047			E
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	0.22			E	0.000045	U		E	0.0015			E	0.045			E
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	0.19			E	0.000045	U		E	0.0014		J+	S	0.047			E
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	0.18			E	0.000045	U		E	0.0014		J+	S	0.045			E
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	0.17			E	0.000045	U		E	0.0014		J+	S	0.047			E
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	0.18				0.000045	U			0.0014		J+		0.048			
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	0.015	J			0.000045	U			0.00014				0.0024	J		
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	0.076			E	0.000045	U		E	0.0011			E	0.054			E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	0.16			E	0.000045	U		E	0.0022			E	0.059			E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	0.23			E	0.000045	U		E	0.0043			E	0.066			E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	0.073			E	0.000045	U		E	0.0022			E	0.061			E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	0.11			E	0.000045	U		E	0.0028			E	0.061			E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	0.058			E	0.000045	U		E	0.0017			E	0.051			E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	0.1			E	0.000045	U		E	0.0023			E	0.056			E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	0.046	J		E	0.000045	U		E	0.0014			E	0.065			E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	0.048	J			0.000045	U			0.0014				0.064			
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	0.012	J			0.000045	U			0.000043	U			0.0023	U		
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	0.072			E	0.000045	U		E	0.00076			E	0.052			E
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	0.17			E	0.000055	J,B		E	0.0063			E	0.042			E
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	0.073			E	0.000046	J,B		E	0.0028			E	0.022			E
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	0.068			E	0.000045	U		E	0.0034			E	0.018			E
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	0.051			E	0.000057	J,B		E	0.003			E	0.038			E
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	0.042	J		E	0.000053	J,B		E	0.0017			E	0.038			E
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	0.13			E	0.000061	J,B		E	0.0022			E	0.057			E
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	0.14			E	0.000058	J,B		E	0.002			E	0.041			E
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	0.16				0.000053	J,B			0.0022				0.046			
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	0.012	U			0.000045	J,B			0.000029	J			0.002	U		
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	0.22			E	0.000045	U		E	0.0037			E	2.6			E
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	0.066			E	0.000045	U		E	0.0016			E	0.0057			E
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	0.07			E	0.000054	J,B		E	0.0016			E	0.0083			E
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	0.24			E	0.000051	J,B		E	0.0022			E	0.019			E
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	0.089			E	0.000085	J,B		E	0.0024			E	5.7			E
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	0.09			E	0.000071	J,B		E	0.0031			E	5.6			E
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	0.1			E	0.000074	J,B		E	0.003			E	5.5			E
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	0.33			E	0.000083	J,B		E	0.0068			E	5.1			E
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	0.12			E	0.000045	U		E	0.0021			E	0.023			E
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	2.3			E	0.000048	J		E	0.022			E	0.087			E
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	0.12			E	0.000045	U		E	0.0026			E	0.028			E
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	0.087			E	0.000045	U		E	0.00083			E	0.017			E
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	0.56			E	0.000045	U		E	0.0014			E	0.011			E
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	0.35			E	0.000045	U		E	0.0011			E	0.0077			E
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	0.32				0.000045	U			0.0011				0.0057			
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	0.012	U			0.000045	U			0.000031	J			0.002	U		
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	0.091			E	0.000045	U		E	0.00084			E	0.0053			E
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	0.065			E	0.000045	U		E	0.00069			E	0.0039	J		E
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	0.064			E	0.000045	U		E	0.00072			E	0.0045	J		E
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	0.058			E	0.000045	U		E	0.00068			E	0.0038	J		E
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	0.74			E	0.000045	U		E	0.0055			E	0.019			E
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	0.09			E	0.000045	U		E	0.00088			E	0.0044	J		E
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	0.65			E	0.000054	J		E	0.0025			E	0.018			E
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	0.065			E	0.000045	U		E	0.002			E	0.022			E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	0.057			E	0.000045	U		E	0.0014			E	0.02			E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	0.042	J,B		E	0.000054	U		E	0.001			E	0.038			E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	0.063	B		E	0.000054	U		E	0.0017			E	0.052			E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	0.1	B		E	0.000054	U		E	0.0024			E	0.038			E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	0.3			E	0.000054	U		E	0.0061			E	0.056			E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	0.098	B		E	0.000054	U		E	0.0026			E	0.04			E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	0.035	J,B		E	0.000054	U		E	0.0013			E	0.04			E

See Table A4 for laboratory and validation qualifier definitions

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	0.0067			E	0.00011			E	0.057			E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	0.0068			E	0.00011			E	0.048			E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	0.014			E	0.000023	J		E	0.013			E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	0.014				0.000016	U			0.014			
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	0.000083	U			0.000016	U			0.00055	J		
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	0.011			E	0.000071	J		E	0.019			E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	0.11			E	0.0017			E	0.53			E
10573163	MPTP-CLV-1	SWSD0198-080121	10573163049	2021-08-01 20:54	AS	B	0.026			E	0.0001			E	0.027			E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	0.0036			E	0.00013			E	0.015			E
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	0.0032			E	0.00012			E	0.0097			E
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	0.0027			E	0.00012			E	0.013			E
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	0.0031			E	0.00014			E	0.019			E
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	0.0039			E	0.00015			E	0.013			E
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	0.0037			E	0.00016			E	0.015			E
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	0.0095			E	0.000075	J		E	0.017			E
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	0.0081			E	0.000088			E	0.032			E
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	0.0035			E	0.000059	J		E	0.016		J	S
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	0.0031			E	0.000051	J		E	0.015		J	S
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	0.0043			E	0.000038	J		E	0.0083		J	S
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	0.0064			E	0.000016	J		E	0.0061		J	S
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	0.0089			E	0.000032	J		E	0.0052		J	S
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	0.0059			E	0.000018	J		E	0.0075		J	S
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	0.0063				0.000021	J			0.0093		J	
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	0.000083	U			0.000016	U			0.0005	U		
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	0.0079			E	0.00011			E	0.03			E
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	0.0075			E	0.0001			E	0.029			E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	0.0065			E	0.00011			E	0.024			E
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	0.0063			E	0.00012			E	0.023			E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	0.0065			E	0.00013			E	0.023			E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	0.0041			E	0.00015			E	0.019			E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	0.0048			E	0.00018			E	0.027			E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	0.004			E	0.000038	J		E	0.022			E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	0.005			E	0.000059	J		E	0.027			E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	0.0095			E	0.000039	J		E	0.031			E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	0.0097				0.000047	J			0.027			
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	0.000083	U			0.000016	U			0.0005	U		
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	0.0025			E	0.00018			E	0.014			E
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	0.0026			E	0.00015			E	0.015			E
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	0.0027	M1		E	0.00018	M1		E	0.023	M1		E
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	0.004			E	0.00026			E	0.035			E
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	0.0028			E	0.000082			E	0.0086			E
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	0.0031			E	0.00008			E	0.011			E
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	0.0074			E	0.00026			E	0.037			E
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	0.056			E	0.0055			E	0.6			E
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	0.0028			E	0.000076	J		E	0.02			E
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	0.0054			E	0.000016	U		E	0.0046			E
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	0.0057				0.000016	U			0.0049			
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	0.000083	U			0.000016	U			0.0005	U		

See Table A4 for laboratory and validation qualifier definitions

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	0.068	B		E	0.000054	U		E	0.00052			E	0.016			E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	0.073	B		E	0.000054	U		E	0.00059			E	0.017			E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	0.43			E	0.000054	U		E	0.00094			E	0.005			E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	0.43				0.000054	U			0.00092				0.0051			
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	0.012	U			0.000054	U			0.000028	U			0.002	U		
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	0.069	B		E	0.000054	U		E	0.0014			E	0.0064			E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	0.18			E	0.000054	J		E	0.0028			E	1			E
10573163	MPTP-CLV-1	SWSD0198-080121	10573163049	2021-08-01 20:54	AS	B	0.062	B		E	0.000054	U		E	0.00066			E	0.016			E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	0.048	J		E	0.000045	U		E	0.0021			E	0.041			E
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	0.046	J		E	0.000045	U		E	0.0017			E	0.035			E
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	0.045	J		E	0.000045	U		E	0.0017			E	0.027			E
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	0.058			E	0.000045	U		E	0.002			E	0.035			E
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	0.054			E	0.000045	U		E	0.00041			E	0.14			E
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	0.038	J		E	0.000045	U		E	0.00024			E	0.15			E
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	0.049	J		E	0.000045	U		E	0.00099			E	0.0045	J		E
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	0.046	J		E	0.000045	U		E	0.00058			E	0.0091			E
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	0.043	J		E	0.000045	U		E	0.0006			E	0.0089			E
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	0.055			E	0.000045	U		E	0.0006			E	0.0096			E
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	0.15			E	0.000045	U		E	0.0016			E	0.0087			E
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	0.5			E	0.000045	U		E	0.0037			E	0.0069			E
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	1.3			E	0.000045	U		E	0.0055			E	0.0056			E
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	0.33			E	0.000045	U		E	0.00076			E	0.004	J		E
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	0.36				0.000045	U			0.00088				0.0056			
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	0.012	U			0.000045	U			0.000028	U			0.002	U		
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	0.077			E	0.000045	U		E	0.00083			E	0.02			E
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	0.074			E	0.000045	U		E	0.0008			E	0.02			E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	0.089			E	0.000045	U		E	0.0011			E	0.019			E
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	0.095			E	0.000045	U		E	0.0012			E	0.018			E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	0.1			E	0.000045	U		E	0.0013			E	0.017			E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	0.06			E	0.000045	U		E	0.0012			E	0.02			E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	0.062			E	0.000045	U		E	0.0012			E	0.036			E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	0.058			E	0.000045	U		E	0.00044			E	0.0068			E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	0.058			E	0.000045	U		E	0.00051			E	0.0074			E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	0.22			E	0.000045	U		E	0.00094			E	0.011			E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	0.22				0.000045	U			0.00086				0.0092			
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	0.012	U			0.000045	U			0.000028	U			0.002	U		
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	0.058			E	0.000045	U		E	0.0024			E	0.043			E
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	0.054			E	0.000045	U		E	0.0022			E	0.038			E
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	0.055	M1		E	0.000045	U		E	0.002	M1		E	0.059			E
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	0.11			E	0.000045	U		E	0.0028			E	0.1			E
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	0.034	J		E	0.000045	U		E	0.00027			E	0.068			E
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	0.044	J		E	0.000045	U		E	0.00026			E	0.082			E
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	0.081			E	0.000045	U		E	0.0014			E	0.016			E
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	0.11			E	0.000045	U		E	0.0034			E	2.7			E
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	0.076			E	0.000045	U		E	0.0013			E	0.012			E
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	0.46			E	0.000045	U		E	0.0025			E	0.0064			E
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	0.46				0.000045	U			0.0024				0.0053			
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	0.012	U			0.000045	U			0.000028	U			0.002	U		

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	Lab Q	Val Q	Status	CdDis (mg/L)	Lab Q	Val Q	Status	CuDis (mg/L)	Lab Q	Val Q	Status
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	0.0038			E	0.000061	J		E	0.033			E
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	0.0043			E	0.000098			E	0.036			E
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	0.0039			E	0.000086			E	0.035			E
10575529	TX-HD-OUT	SWSD0244-081821	10575529017	2021-08-18 02:16	IS3	B	0.0036			E	0.000091			E	0.036			E
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	0.0067			E	0.00014			E	0.065			E
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	0.0067				0.00014				0.066			
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	0.000083	U			0.000016	U			0.0005	U		
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	0.0066			E	0.00015			E	0.024			E
10575529	GG-CLV-I	SWSD0250-081821	10575529023	2021-08-18 01:43	AS	B	0.042			E	0.0028			E	0.27			E
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	0.0063			E	0.000089			E	0.02			E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	0.0049			E	0.00011			E	0.014			E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	0.0035			E	0.00014			E	0.011			E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		0.0026			E	0.0001			E	0.0093			E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	0.0024			E	0.00018			E	0.014			E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	0.0022			E	0.00024			E	0.018			E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	0.0046			E	0.00019			E	0.018			E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	0.0031			E	0.00018			E	0.0087			E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	0.0038			E	0.00013			E	0.011			E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	0.0042			E	0.00045			E	0.018			E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	0.011			E	0.000063	J		E	0.028			E
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	0.0032			E	0.000032	J		E	0.014			E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	0.0026			E	0.000035	J		E	0.013			E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	0.0033			E	0.000032	J		E	0.012			E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	0.0032			E	0.000026	J		E	0.01			E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	0.005			E	0.000058	J		E	0.017			E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	0.0037			E	0.000096			E	0.031			E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	0.0037				0.000091				0.032			
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	0.000083	U			0.000016	U			0.0005	U		
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	0.012			E	0.000086			E	0.015			E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	0.0098			E	0.000089			E	0.014			E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	0.0099			E	0.000073	J		E	0.014			E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	0.014			E	0.000096			E	0.024			E
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	0.0053			E	0.000055	J		E	0.028			E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	0.0052			E	0.000067	J		E	0.027			E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	0.0055			E	0.000064	J		E	0.029			E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	0.0049			E	0.000083			E	0.025			E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	0.0051			E	0.00008			E	0.027			E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	0.0065			E	0.000081			E	0.034			E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	0.0089			E	0.00012			E	0.054			E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	0.006			E	0.000067	J		E	0.033			E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	0.0058				0.000081				0.032			
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	0.000083	U			0.000016	U			0.0005	U		
10576049	GG-CLV-D	SWSD0288-082121	10576049033	2021-08-21 18:39	AS	B	0.0064			E	0.000056	J		E	0.015			E
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	0.012			E	0.0016			E	0.055			E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	0.012			E	0.0016			E	0.057			E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	0.012			E	0.0018			E	0.062			E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	0.011			E	0.0018			E	0.061			E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	0.011			E	0.0018			E	0.063			E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	0.012				0.0019				0.067			
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	0.000083	U			0.000016	U			0.0005	U		

See Table A4 for laboratory and validation qualifier definitions

Table 13b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	FeDis (mg/L)	Lab Q	Val Q	Status	HgDis (mg/L)	Lab Q	Val Q	Status	PbDis (mg/L)	Lab Q	Val Q	Status	ZnDis (mg/L)	Lab Q	Val Q	Status
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	0.12			E	0.000045	U		E	0.00077			E	0.0072			E
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	0.12			E	0.000045	U		E	0.00079			E	0.009			E
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	0.097			E	0.000045	U		E	0.00079			E	0.012			E
10575529	TX-HD-OUT	SWSD0244-081821	10575529017	2021-08-18 02:16	IS3	B	0.081			E	0.000045	U		E	0.00062			E	0.013			E
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	0.12			E	0.000045	U		E	0.0011			E	0.019			E
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	0.12				0.000045	U			0.0012				0.023			
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	0.012	U			0.000045	U			0.000028	U			0.002	U		
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	0.082			E	0.000045	U		E	0.0021			E	0.058			E
10575529	GG-CLV-I	SWSD0250-081821	10575529023	2021-08-18 01:43	AS	B	0.12			E	0.000045	U		E	0.0019			E	1.2			E
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	0.04	J		E	0.000045	U		E	0.00063			E	0.0063			E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	0.037	J		E	0.000045	U		E	0.001			E	0.04			E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	0.05	J		E	0.000045	U		E	0.0016			E	0.028			E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		0.039	J		E	0.000045	U		E	0.0012			E	0.022	B		E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	0.03	J		E	0.000045	U		E	0.001			E	0.059			E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	0.027	J		E	0.000045	U		E	0.0012			E	0.09			E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	0.048	J		E	0.000045	U		E	0.0011			E	0.071			E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	0.28			E	0.000045	U		E	0.0011			E	0.22			E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	0.12			E	0.000045	U		E	0.00047			E	0.18			E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	0.11			E	0.000045	U		E	0.00042			E	1.2			E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	0.023	J		E	0.000045	U		E	0.00034			E	0.0056	B		E
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	0.035	J		E	0.000045	U		E	0.0004			E	0.0068	B		E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	0.03	J		E	0.000045	U		E	0.00036			E	0.0073	B		E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	0.042	J		E	0.000045	U		E	0.00064			E	0.012	B		E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	0.093			E	0.000045	U		E	0.00048			E	0.011	B		E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	0.069			E	0.000045	U		E	0.00054			E	0.015	B		E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	0.045	J		E	0.000045	U		E	0.00055			E	0.025			E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	0.044	J			0.000045	U			0.00055				0.024			
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	0.012	U			0.000045	U			0.000028	U			0.002	U		
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	0.052			E	0.000045	U		E	0.0011			E	0.0056	B		E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	0.039	J		E	0.000045	U		E	0.0009			E	0.0051	B		E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	0.05			E	0.000045	U		E	0.00095			E	0.0045	J,B		E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	0.033	J		E	0.000045	U		E	0.00086			E	0.0078			E
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	0.16			E	0.000045	U		E	0.00087		J	S	0.0097			E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	0.12			E	0.000045	U		E	0.00067		J	S	0.011			E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	0.076			E	0.000045	U		E	0.00063		J	S	0.011			E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	0.098			E	0.000045	U		E	0.00074		J	S	0.012			E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	0.12			E	0.000045	U		E	0.0007		J	S	0.0086			E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	0.21			E	0.000045	U		E	0.001		J	S	0.0098			E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	0.24			E	0.000045	U		E	0.0013		J	S	0.013			E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	0.096			E	0.000045	U		E	0.00061		J	S	0.015			E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	0.098				0.000045	U			0.00078		J		0.019			
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	0.012	U			0.000045	U			0.000028	U			0.002	U		
10576049	GG-CLV-D	SWSD0288-082121	10576049033	2021-08-21 18:39	AS	B	0.048	J		E	0.000045	U		E	0.0007			E	0.017			E
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	0.15			E	0.000045	U		E	0.0039			E	0.4			E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	0.14			E	0.000045	U		E	0.0043			E	0.41			E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	0.15			E	0.000045	U		E	0.0043			E	0.42			E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	0.14			E	0.000045	U		E	0.0041			E	0.45			E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	0.15			E	0.000045	U		E	0.0044			E	0.47			E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	0.16				0.000045	U			0.0047				0.51			
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	0.013	J			0.000045	U			0.000032	J			0.002	U		

Table 13c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	37.6		J+	S	235	H1	J-	S
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	35.3		J+		229	H1	J-	
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	1.2	U			5	U		
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	51	M0	J+	S	675	H1,D6	J-	S
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	27.4			E	159			E
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	26.4			E	177			E
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	23.1			E	158			E
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	9.5			E	183			E
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	10.8			E	179			E
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	10.7			E	196			E
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	22.8			E	292			E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	25.1			E	9.9	J		E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	30.5			E	47.8	D6		E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	26.6			E	18.9			E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	27.3				21.2			
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	1.2	U			5	U		
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	29.9			E	453			E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	39.4			E	188			E
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	26.9			E	255			E
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	23.2			E	92.4			E
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	44.8			E	194			E
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	53.3			E	246			E
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	48			E	257			E
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	51.8			E	305			E
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	39.3			E	253			E
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	46.1		J-	S	5	U		E
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	46.1		J-	S	8.1	J		E
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	46.5		J-	S	5	U		E
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	49.7		J-	S	5	U		E
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	48.6		J-	S	5.4	J		E
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	51.7		J-	S	5	U		E
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	51		J-	S	5	U		E
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	51.6	M1	J-	S	6.5	J		E
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	50.2		J-		5	U		
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	1.2	U			5	U		
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	75.6			E	256			E
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	28.8			E	44.3			E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	10.3			E	8.7	J		E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	25.4			E	28.3	D6		E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	16.9			E	17.5			E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	14.8			E	17			E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	15.4				23.2			
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	1.2	U			5	U		
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		42.3			E	788		J	S
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		38.3			E	419		J	S
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		29		J+	S	250	H3	J-	S
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		26.7		J+	S	222	H3	J-	S
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		37.7		J+	S	314	H3	J-	S
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		21.8		J+	S	311	H3	J-	S
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		30.9		J+	S	355	H3	J-	S
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		28.8		J+	S	254	H3	J-	S
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		177			E	1100		J	S
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		20.4	M1	J+	S	152		J	S
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		38.2	M1	J-	S	173		J	S
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		25.2		J-	S	235		J	S
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		36.1		J-	S	285		J	S
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		30.1		J-	S	333		J	S
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		38.3		J-	S	340		J	S
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		39.4		J-		419		J	
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		1.2	U			5	U		
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		27.5		J-	S	29.8	D6	J	S
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		34.8		J-	S	69.5		J	S
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		38.1		J-	S	58.3	H1	J-	S
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		36.9		J-	S	105	H1	J-	S
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		37.6		J-	S	110	H1	J-	S

Table 13c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		35.2		J-	S	120	H1	J-	S
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		36.1		J-	S	139	H1	J-	S
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		38.7		J-	S	172	H1	J-	S
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		30.7		J-		173	H1	J-	
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		1.2	U			5	U		
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		44.9		J-	S	205	H1	J-	S
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		41.9		J-	S	153	H1	J-	S
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		27.5		J-	S	30.7	H3	J-	S
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	14.1			E	108			E
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	16.4			E	107			E
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	18.8			E	213			E
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	30.3			E	313			E
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	54.9			E	288			E
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	57.4			E	52.7			E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	71.4			E	652			E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	21.7		J-	S	128			E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	24.2		J-	S	159			E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	33.7		J-	S	255			E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	109		J-	S	517			E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	14.9		J-	S	28.7			E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	30.6		J-	S	36.4			E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	30.9		J-		33.8			
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	1.2	U			5	U		
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	31.2	M1	J-	S	29.3	D6		E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	38.1		J-	S	38.7			E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	30.4		J-	S	48.5			E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	24.6		J-	S	55.7			E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	22.3		J-	S	67.7			E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	24.7	M1		E	75.6			E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	19.1			E	122		J	S
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	19.2				116	D6	J	
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	1.2	U			5	U		
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	36.9			E	44			E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	29.8			E	44	D6		E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	15.6			E	157			E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	15.1			E	162			E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	17			E	208			E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	17.8			E	237			E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	25.6			E	217			E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	33.2			E	274			E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	70.3			E	1080			E
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	20.5	M1	J+	S	331		J	S
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	24.5		J+	S	283		J	S
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	42.4			E	1370		J	S
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	53.8			E	2430		J	S
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	31.4			E	3970	D6	J	S
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	32.3			E	1070		J	S
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	33.5		J	S	187		J	S
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	22.3		J	S	232		J	S
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	36		J	S	267		J	S
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	33.1		J	S	297		J	S
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	20.2		J	S	284		J	S
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	16.8		J	S	282		J	S
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	108	M1	J+		481		J	
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	1.2	U			5	U		
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	50.3		J	S	63.4			E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	54.6		J	S	102			E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	62.2		J	S	140			E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	52		J	S	179			E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	46.9		J	S	150			E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	41.8		J	S	196			E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	56.6		J	S	333			E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	34.3		J	S	347			E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	42.6		J		323			
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	1.2	U			5	U		
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	144			E	1060			E

Table 13c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	33.7			E	377		J	S
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	30.7			E	617		J	S
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	18.7			E	927		J	S
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	17.2		J+	S	255		J	S
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	14.5	M1	J+	S	478	D6	J	S
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	24.1		J+	S	562		J	S
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	37.4		J+	S	730		J	S
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	38.6		J+		562		J	
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	1.2	U			5	U		
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	449			E	2750		J	S
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	74.5			E	2470		J	S
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	49.5			E	1520		J	S
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	51.2			E	1380		J	S
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	429			E	1380		J	S
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	529			E	1330		J	S
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	510			E	5390		J	S
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	520			E	12400		J	S
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	12.1			E	196		J	S
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	13.7			E	223		J	S
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	18			E	427		J	S
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	10.6			E	487		J	S
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	21.1			E	1560		J	S
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	25.4			E	1010		J	S
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	29.8				1670		J	
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	1.2	U			5	U		
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	76.7			E	211		J	S
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	82			E	267		J	S
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	95.5			E	375		J	S
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	91.4			E	464		J	S
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	86			E	433		J	S
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	49.9			E	1060		J	S
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	279			E	3050		J	S
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	16.8			E	131			E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	18.5			E	163			E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	31.7			E	69			E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	28.8			E	26.9			E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	26.7			E	35.8	D6		E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	28			E	83.3			E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	27.9			E	87.4			E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	32.5			E	206			E
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	35.5			E	541			E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	42.4			E	895			E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	65.9			E	2770			E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	69.4				2660			
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	1.2	U			5	U		
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	41.8			E	1840			E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	59.6			E	1120			E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	8.7			E	51.5		J	S
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	8.3			E	77.6		J	S
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	13			E	191		J	S
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	22.1			E	420	D6	J	S
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	70.2			E	45.2		J	S
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	73			E	175		J	S
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	19			E	146		J	S
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	62.2			E	1070		J	S
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	5.2	M1	J+	S	75.1		J	S
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	5.4		J+	S	94.9		J	S
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	8.5		J+	S	354		J	S
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	50.7		J	S	1000		J	S
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	123		J	S	2910		J	S
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	38.7		J	S	1240		J	S
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	47.7		J		1450		J	
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	1.2	U			5	U		
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	17.4		J+	S	14.7		J	S
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	18.8	M1	J+	S	33.7			E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	22.7		J+	S	81.2			E

Table 13c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	Lab Q	Val Q	Status	TSS (mg/L)	Lab Q	Val Q	Status
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	22.1		J+	S	93.6			E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	31.6		J+	S	200			E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	24.3		J+	S	162			E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	29.5		J+	S	249			E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	19.9			E	201			E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	22.6			E	467			E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	41.9			E	1820			E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	39				1650			
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	1.2	U			5	U		
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	7.7		J+	S	79.4		J	S
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	8		J+	S	131		J	S
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	15.9	M1	J+	S	194	D6	J	S
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	26.5		J+	S	88.7		J	S
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	54.4			E	32		J	S
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	59.5			E	49.1		J	S
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	29.7			E	106		J	S
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	165			E	883		J	S
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	10			E	175		J	S
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	21.5			E	1050		J	S
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	21.9				1130		J	
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	1.2	U			5	U		
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	16.4			E	331		J	S
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	16.4			E	342		J	S
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	14.7			E	401		J	S
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	28.3			E	672		J	S
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	29.8				596		J	
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	1.2	U			5	U		
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	18.3			E	307		J	S
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	10.9			E	42			E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	12.2			E	21.6			E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	8.5			E	80.5			E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		7.2			E	119			E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	6.5			E	128			E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	6.9			E	129			E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	9.3			E	168			E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	59	M1	J-	S	27.6	D6		E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	49.6		J-	S	35.7			E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	221		J-	S	24.1			E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	17.7			E	583			E
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	4.4		J+	S	71.7			E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	3.8		J+	S	80.9			E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	5		J+	S	250			E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	6.3		J+	S	409			E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	5.7	M1	J+	S	184			E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	25.4		J+	S	209			E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	23.7		J+		204			
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	1.2	U			5	U		
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	15.3			E	107			E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	17.5			E	148			E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	25.3			E	169			E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	24.8			E	286			E
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	16.9			E	274			E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	16.7			E	266			E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	15.8			E	262			E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	16.1			E	271			E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	20	M1	J+	S	281			E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	32.9		J+	S	619			E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	31.1		J+	S	581			E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	31.4		J+	S	552			E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	32.2		J+		620			
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	1.2	U			5	U		
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	52			E	5	U		E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	53.2			E	5	U		E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	51.9			E	5	U		E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	52.2			E	5	U		E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	52.3			E	51			E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	53.8				53.4			
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	1.2	U			5	U		

Table 13d. BPSOU 2021 Diagnostic Water Quality Results - Field

SDG	Location	Field Sample ID	Monitoring Date	Sample Type	Flow (cfs)
10561913	BG-CLV-1	SWSD0012-052021	2021-05-20 02:49	IS1	3.74
10561913	BG-CLV-1	SWSD0011-052021	2021-05-20 03:06	IS2	3.56
10561913	BG-CLV-1	SWSD0010-052021	2021-05-20 03:16	IS3	3.51
10561913	BG-CLV-1	SWSD0009-052021	2021-05-20 03:31	IS4	3.86
10561913	BG-CLV-1	SWSD0008-052021	2021-05-20 06:22	IS5	3.85
10561913	BG-CLV-1	SWSD0007-052021	2021-05-20 06:37	IS6	3.87
10561913	BG-CLV-1	SWSD0006-052021	2021-05-20 07:20	IS7	3.83
10562410	BG-CLV-1	SWSD0029-052121	2021-05-21 17:20	IS1	3.02
10562410	BG-CLV-1	SWSD0028-052121	2021-05-21 17:35	IS2	4.14
10562410	BG-CLV-1	SWSD0027-052121	2021-05-21 17:50	IS3	3.84
10562410	BG-CLV-1	SWSD0026-052121	2021-05-21 18:20	IS4	3.75
10562410	BG-CLV-1	SWSD0025-052121	2021-05-21 18:50	IS5	3.37
10562410	BG-CLV-1	SWSD0024-052321	2021-05-23 06:02	IS6	2.67
10562410	BG-CLV-1	SWSD0023-052321	2021-05-23 14:16	IS7	2.42
10562410	BG-CLV-1	SWSD0022-052321	2021-05-23 15:16	IS8	11.48
10563136	BG-CLV-1	SWSD0060-052521	2021-05-25 17:03	IS1	
10563136	BG-CLV-1	SWSD0059-052521	2021-05-25 17:18	IS2	4.97
10563136	BG-CLV-1	SWSD0058-052521	2021-05-25 17:33	IS3	7.07
10563136	BG-CLV-1	SWSD0057-052521	2021-05-25 18:03	IS4	2.77
10563136	BG-CLV-1	SWSD0056-052521	2021-05-25 22:39	IS5	
10563136	BG-CLV-1	SWSD0055-052521	2021-05-25 23:55	IS6	3.27
10563136	BG-CLV-1	SWSD0054-052621	2021-05-26 06:19	IS7	4.19
10563136	BG-CLV-1	SWSD0053-052621	2021-05-26 09:02	IS8	
10565533	BG-CLV-1	SWSD0089-061021	2021-06-10 14:40	IS2	1.49
10565533	BG-CLV-1	SWSD0088-061021	2021-06-10 14:55	IS3	12.48
10565533	BG-CLV-1	SWSD0087-061021	2021-06-10 15:10	IS4	16.52
10565533	BG-CLV-1	SWSD0086-061021	2021-06-10 15:40	IS5	10.74
10565533	BG-CLV-1	SWSD0085-061021	2021-06-10 16:10	IS6	4.46
10568970	BG-CLV-1	SWSD0123-070121	2021-07-01 14:02	IS1	
10568970	BG-CLV-1	SWSD0122-070121	2021-07-01 14:17	IS2	
10568970	BG-CLV-1	SWSD0121-070121	2021-07-01 14:32	IS3	
10568970	BG-CLV-1	SWSD0120-070121	2021-07-01 15:02	IS4	
10568970	BG-CLV-1	SWSD0119-070121	2021-07-01 15:32	IS5	
10571347	BG-CLV-1	SWSD0145-072021	2021-07-20 16:10	IS1-N	1.25
10571347	BG-CLV-1	SWSD0146-072021	2021-07-20 16:10	IS1-D	1.25
10573163	BG-CLV-1	SWSD0156-080121	2021-08-01 16:12	IS1-N	
10573163	BG-CLV-1	SWSD0157-080121	2021-08-01 16:12	IS1-D	
10573163	BG-CLV-1	SWSD0155-080121	2021-08-01 16:27	IS2	11.66
10573163	BG-CLV-1	SWSD0154-080121	2021-08-01 16:42	IS3	28.35
10573163	BG-CLV-1	SWSD0153-080121	2021-08-01 17:12	IS4	7.20
10573163	BG-CLV-1	SWSD0152-080121	2021-08-01 17:35	IS5	1.32
10573163	BG-CLV-1	SWSD0151-080121	2021-08-01 18:05	IS6	49.89
10573163	BG-CLV-1	SWSD0150-080121	2021-08-01 19:05	IS7	
10574254	BG-CLV-1	SWSD0202-080821	2021-08-08 18:44	IS4	
10574254	BG-CLV-1	SWSD0201-080821	2021-08-08 18:59	IS5	35.10
10574254	BG-CLV-1	SWSD0200-080821	2021-08-08 19:29	IS6	34.41
10574254	BG-CLV-1	SWSD0199-080821	2021-08-08 19:59	IS7	8.80
10575529	BG-CLV-1	SWSD0231-081821	2021-08-18 00:46	IS4	
10575529	BG-CLV-1	SWSD0230-081821	2021-08-18 01:32	IS5	
10575529	BG-CLV-1	SWSD0229-081821	2021-08-18 02:02	IS6	34.54
10575529	BG-CLV-1	SWSD0228-081821	2021-08-18 02:32	IS7	16.22
10576049	BG-CLV-1	SWSD0260-082121	2021-08-21 18:39	IS1	
10576049	BG-CLV-1	SWSD0259-082121	2021-08-21 18:54	IS2	17.29
10576049	BG-CLV-1	SWSD0258-082121	2021-08-21 19:09	IS3	33.21
10576049	BG-CLV-1	SWSD0257-082121	2021-08-21 19:39	IS4	37.34
10576049	BG-CLV-1	SWSD0256-082121	2021-08-21 20:09	IS5	12.04
10562410	GG-CH-1	SWSD0037-052321	2021-05-23 06:44	IS1-N	1.09
10562410	GG-CH-1	SWSD0038-052321	2021-05-23 06:44	IS1-D	1.09
10562410	GG-CH-1	SWSD0036-052321	2021-05-23 07:14	IS2	1.07
10562410	GG-CH-1	SWSD0035-052321	2021-05-23 07:44	IS3	1.12

Empty cells indicate that level and/or velocity did not meet flow calculation criteria.

Table 13d. BPSOU 2021 Diagnostic Water Quality Results - Field

SDG	Location	Field Sample ID	Monitoring Date	Sample Type	Flow (cfs)
10562410	GG-CH-1	SWSD0034-052321	2021-05-23 08:14	IS4	1.22
10562410	GG-CH-1	SWSD0033-052321	2021-05-23 08:44	IS5	1.11
10562410	GG-CH-1	SWSD0032-052321	2021-05-23 09:15	IS6	1.11
10562410	GG-CH-1	SWSD0031-052321	2021-05-23 09:17	IS7	1.11
10562410	GG-CH-1	SWSD0030-052321	2021-05-23 10:17	IS8	1.16
10565533	GG-CH-1	SWSD0090-061021	2021-06-10 17:25	IS1	
10574254	GG-CH-1	SWSD0204-080821	2021-08-08 19:13	IS1	
10574254	GG-CH-1	SWSD0203-080821	2021-08-08 19:43	IS2	
10575529	GG-CH-1	SWSD0233-081821	2021-08-18 02:16	IS1	
10575529	GG-CH-1	SWSD0232-081821	2021-08-18 02:46	IS2	
10576049	GG-CH-1	SWSD0263-082121	2021-08-21 19:12	IS1	
10576049	GG-CH-1	SWSD0262-082121	2021-08-21 19:41	IS2	
10576049	GG-CH-1	SWSD0261-082121	2021-08-21 20:11	IS3	
10561913	GG-CLV-C	SWSD0019-051421	2021-05-14 20:00	AS	
10562410	GG-CLV-C	SWSD0049-052321	2021-05-23 17:00	AS	
10563136	GG-CLV-C	SWSD0083-052621	2021-05-26 09:00	AS	
10565533	GG-CLV-C	SWSD0117-061021	2021-06-10 14:49	AS	
10568970	GG-CLV-C	SWSD0144-070121	2021-07-01 14:12	AS	
10571347	GG-CLV-C	SWSD0148-072021	2021-07-20 16:10	AS	
10573163	GG-CLV-C	SWSD0159-080121	2021-08-01 17:40	IS1	
10573163	GG-CLV-C	SWSD0195-080121	2021-08-01 17:40	AS	
10576049	GG-CLV-C	SWSD0287-082121	2021-08-21 18:39	AS	
10560269	GG-CLV-D	SWSD0004-050721	2021-05-07 16:55	IS1	
10560269	GG-CLV-D	SWSD0001-050721	2021-05-07 17:10	IS2-N	
10560269	GG-CLV-D	SWSD0002-050721	2021-05-07 17:10	IS2-D	
10560269	GG-CLV-D	SWSD0005-050721	2021-05-07 17:20	FG	
10561913	GG-CLV-D	SWSD0013-052021	2021-05-20 07:45	IS1	
10561913	GG-CLV-D	SWSD0020-052021	2021-05-20 07:45	AS	
10561913	GG-CLV-D	SWSD0021-052121	2021-05-21 07:51	AS	
10562410	GG-CLV-D	SWSD0041-052321	2021-05-23 17:00	IS1	
10562410	GG-CLV-D	SWSD0050-052321	2021-05-23 17:00	AS	
10562410	GG-CLV-D	SWSD0040-052321	2021-05-23 18:00	IS2	
10563136	GG-CLV-D	SWSD0061-052621	2021-05-26 09:31	IS1	
10565533	GG-CLV-D	SWSD0091-061021	2021-06-10 14:49	IS1	
10565533	GG-CLV-D	SWSD0118-061021	2021-06-10 14:49	AS	
10568970	GG-CLV-D	SWSD0124-070121	2021-07-01 14:12	IS1	
10568970	GG-CLV-D	SWSD0143-070121	2021-07-01 14:12	AS	
10573163	GG-CLV-D	SWSD0162-080121	2021-08-01 16:11	IS1	
10573163	GG-CLV-D	SWSD0196-080121	2021-08-01 16:11	AS	
10573163	GG-CLV-D	SWSD0161-080121	2021-08-01 17:35	IS2	0.13
10573163	GG-CLV-D	SWSD0160-080121	2021-08-01 20:52	IS3	0.27
10574254	GG-CLV-D	SWSD0206-080821	2021-08-08 18:43	IS4	0.12
10574254	GG-CLV-D	SWSD0205-080821	2021-08-08 20:30	IS6	
10575529	GG-CLV-D	SWSD0235-081821	2021-08-18 01:35	IS1	
10575529	GG-CLV-D	SWSD0249-081821	2021-08-18 01:35	AS	
10575529	GG-CLV-D	SWSD0234-081821	2021-08-18 05:51	IS2	
10575529	GG-CLV-D	SWSD0254-082021	2021-08-20 02:53	AS	
10575529	GG-CLV-D	SWSD0253-082021	2021-08-20 02:55	IS2	
10575529	GG-CLV-D	SWSD0252-082021	2021-08-20 05:06	IS3	
10576049	GG-CLV-D	SWSD0264-082121	2021-08-21 18:39	IS1	
10576049	GG-CLV-D	SWSD0288-082121	2021-08-21 18:39	AS	
10562410	GG-CLV-I	SWSD0051-052321	2021-05-23 17:00	AS	
10571347	GG-CLV-I	SWSD0149-072021	2021-07-20 16:10	AS	
10573163	GG-CLV-I	SWSD0166-080121	2021-08-01 20:48	IS1	
10573163	GG-CLV-I	SWSD0197-080121	2021-08-01 20:48	AS	
10573163	GG-CLV-I	SWSD0165-080121	2021-08-01 21:03	IS2	
10573163	GG-CLV-I	SWSD0164-080121	2021-08-01 21:18	IS3	
10573163	GG-CLV-I	SWSD0163-080121	2021-08-01 21:48	IS4	

Empty cells indicate that level and/or velocity did not meet flow calculation criteria.

Table 13d. BPSOU 2021 Diagnostic Water Quality Results - Field

SDG	Location	Field Sample ID	Monitoring Date	Sample Type	Flow (cfs)
10574254	GG-CLV-I	SWSD0227-080821	2021-08-08 18:43	AS	0.03
10575529	GG-CLV-I	SWSD0236-081821	2021-08-18 01:43	IS1	0.06
10575529	GG-CLV-I	SWSD0250-081821	2021-08-18 01:43	AS	0.06
10576049	GG-CLV-I	SWSD0289-082121	2021-08-21 18:39	AS	
10563136	LC-CLV-1	SWSD0067-052621	2021-05-26 10:15	IS1-N	
10563136	LC-CLV-1	SWSD0068-052621	2021-05-26 10:15	IS1-D	
10563136	LC-CLV-1	SWSD0066-052621	2021-05-26 10:30	IS2	
10563136	LC-CLV-1	SWSD0065-052621	2021-05-26 10:45	IS3	
10563136	LC-CLV-1	SWSD0064-052621	2021-05-26 11:15	IS4	
10563136	LC-CLV-1	SWSD0063-052621	2021-05-26 11:45	IS5	
10563136	LC-CLV-1	SWSD0062-052621	2021-05-26 12:45	IS6	
10565533	LC-CLV-1	SWSD0097-061021	2021-06-10 14:52	IS1-N	
10565533	LC-CLV-1	SWSD0098-061021	2021-06-10 14:52	IS1-D	
10565533	LC-CLV-1	SWSD0096-061021	2021-06-10 15:07	IS2	
10565533	LC-CLV-1	SWSD0095-061021	2021-06-10 15:22	IS3	
10565533	LC-CLV-1	SWSD0094-061021	2021-06-10 15:52	IS4	
10565533	LC-CLV-1	SWSD0093-061021	2021-06-10 16:22	IS5	
10565533	LC-CLV-1	SWSD0092-061021	2021-06-10 17:22	IS6	
10568970	LC-CLV-1	SWSD0130-070121	2021-07-01 15:53	IS1-N	3.09
10568970	LC-CLV-1	SWSD0131-070121	2021-07-01 15:53	IS1-D	3.09
10568970	LC-CLV-1	SWSD0129-070121	2021-07-01 16:07	IS2	2.91
10568970	LC-CLV-1	SWSD0128-070121	2021-07-01 16:22	IS3	2.67
10568970	LC-CLV-1	SWSD0127-070121	2021-07-01 16:52	IS4	2.41
10568970	LC-CLV-1	SWSD0126-070121	2021-07-01 17:22	IS5	2.24
10568970	LC-CLV-1	SWSD0125-070121	2021-07-01 18:22	IS6	2.03
10573163	LC-CLV-1	SWSD0172-080121	2021-08-01 21:01	IS1-N	3.02
10573163	LC-CLV-1	SWSD0173-080121	2021-08-01 21:01	IS1-D	3.02
10573163	LC-CLV-1	SWSD0171-080121	2021-08-01 21:16	IS2	7.84
10573163	LC-CLV-1	SWSD0170-080121	2021-08-01 21:31	IS3	6.82
10573163	LC-CLV-1	SWSD0169-080121	2021-08-01 22:01	IS4	4.76
10573163	LC-CLV-1	SWSD0168-080121	2021-08-01 22:31	IS5	3.70
10573163	LC-CLV-1	SWSD0167-080121	2021-08-01 23:31	IS6	2.84
10574254	LC-CLV-1	SWSD0212-080821	2021-08-08 18:43	IS1-N	2.37
10574254	LC-CLV-1	SWSD0213-080821	2021-08-08 18:43	IS1-D	2.37
10574254	LC-CLV-1	SWSD0211-080821	2021-08-08 18:58	IS2	4.82
10574254	LC-CLV-1	SWSD0210-080821	2021-08-08 19:13	IS3	4.05
10574254	LC-CLV-1	SWSD0209-080821	2021-08-08 19:43	IS4	9.26
10574254	LC-CLV-1	SWSD0208-080821	2021-08-08 20:13	IS5	7.74
10574254	LC-CLV-1	SWSD0207-080821	2021-08-08 21:13	IS6	4.44
10575529	LC-CLV-1	SWSD0238-081821	2021-08-18 02:02	IS6-N	3.93
10575529	LC-CLV-1	SWSD0239-081821	2021-08-18 02:02	IS6-D	3.93
10575529	LC-CLV-1	SWSD0237-081821	2021-08-18 03:02	IS7	5.34
10576049	LC-CLV-1	SWSD0270-082121	2021-08-21 18:50	IS1-N	0.74
10576049	LC-CLV-1	SWSD0271-082121	2021-08-21 18:50	IS1-D	0.74
10576049	LC-CLV-1	SWSD0269-082121	2021-08-21 19:05	IS2	8.55
10576049	LC-CLV-1	SWSD0268-082121	2021-08-21 19:20	IS3	6.84
10576049	LC-CLV-1	SWSD0267-082121	2021-08-21 19:50	IS4	6.67
10576049	LC-CLV-1	SWSD0266-082121	2021-08-21 20:20	IS5	5.38
10576049	LC-CLV-1	SWSD0265-082121	2021-08-21 21:20	IS6	2.86
10583383	MG-CLV-0	SWSD0294-100821	2021-10-08 09:44	IS1-N	
10583383	MG-CLV-0	SWSD0295-100821	2021-10-08 09:44	IS1-D	
10583383	MG-CLV-0	SWSD0293-100821	2021-10-08 10:14	IS2	
10583383	MG-CLV-0	SWSD0292-100821	2021-10-08 10:44	IS3	
10583383	MG-CLV-0	SWSD0291-100821	2021-10-08 11:14	IS4	
10583383	MG-CLV-0	SWSD0290-100821	2021-10-08 11:44	IS5	
10562410	MPTP-CLV-1	SWSD0052-052321	2021-05-23 17:00	AS	
10563136	MPTP-CLV-1	SWSD0084-052621	2021-05-26 09:00	AS	

Empty cells indicate that level and/or velocity did not meet flow calculation criteria.

Table 13d. BPSOU 2021 Diagnostic Water Quality Results - Field

SDG	Location	Field Sample ID	Monitoring Date	Sample Type	Flow (cfs)
10573163	MPTP-CLV-1	SWSD0181-080121	2021-08-01 20:54	IS1	0.01
10573163	MPTP-CLV-1	SWSD0198-080121	2021-08-01 20:54	AS	0.01
10573163	MPTP-CLV-1	SWSD0180-080121	2021-08-01 21:28	IS2	0.01
10573163	MPTP-CLV-1	SWSD0179-080121	2021-08-01 21:43	IS3	0.38
10573163	MPTP-CLV-1	SWSD0178-080121	2021-08-01 21:58	IS4	0.41
10573163	MPTP-CLV-1	SWSD0177-080121	2021-08-01 22:28	IS5	0.29
10573163	MPTP-CLV-1	SWSD0176-080121	2021-08-01 22:58	IS6	0.18
10573163	MPTP-CLV-1	SWSD0175-080121	2021-08-01 23:58	IS7	0.06
10575529	MPTP-CLV-1	SWSD0251-081821	2021-08-18 01:43	AS	
10575529	MPTP-CLV-1	SWSD0255-082021	2021-08-20 02:53	AS	
10576049	MPTP-CLV-1	SWSD0276-082121	2021-08-21 20:05	IS1	0.01
10576049	MPTP-CLV-1	SWSD0275-082121	2021-08-21 20:20	IS2	0.13
10576049	MPTP-CLV-1	SWSD0274-082121	2021-08-21 20:35	IS3	0.08
10576049	MPTP-CLV-1	SWSD0273-082121	2021-08-21 21:05	IS4	0.05
10563136	MSD-CLV-3A	SWSD0077-052621	2021-05-26 10:58	IS1-N	1.98
10563136	MSD-CLV-3A	SWSD0078-052621	2021-05-26 10:58	IS1-D	1.98
10563136	MSD-CLV-3A	SWSD0076-052621	2021-05-26 11:28	IS2	1.18
10563136	MSD-CLV-3A	SWSD0075-052621	2021-05-26 11:58	IS3	
10563136	MSD-CLV-3A	SWSD0074-052621	2021-05-26 12:28	IS4	
10563136	MSD-CLV-3A	SWSD0073-052621	2021-05-26 12:58	IS5	
10563136	MSD-CLV-3A	SWSD0072-052621	2021-05-26 13:58	IS6	0.10
10563136	MSD-CLV-3A	SWSD0071-052621	2021-05-26 14:45	IS7	0.09
10563136	MSD-CLV-3A	SWSD0070-052621	2021-05-26 17:38	IS8	
10565533	MSD-CLV-3A	SWSD0106-061021	2021-06-10 16:48	IS1-N	
10565533	MSD-CLV-3A	SWSD0107-061021	2021-06-10 16:48	IS1-D	
10565533	MSD-CLV-3A	SWSD0105-061021	2021-06-10 17:18	IS2	2.09
10565533	MSD-CLV-3A	SWSD0104-061021	2021-06-10 17:48	IS3	1.31
10565533	MSD-CLV-3A	SWSD0103-061021	2021-06-10 18:18	IS4	1.28
10565533	MSD-CLV-3A	SWSD0102-061021	2021-06-10 18:48	IS5	1.21
10565533	MSD-CLV-3A	SWSD0101-061021	2021-06-10 19:48	IS6	0.94
10565533	MSD-CLV-3A	SWSD0100-061021	2021-06-10 20:48	IS7	0.60
10568970	MSD-CLV-3A	SWSD0140-070121	2021-07-01 15:07	IS1-N	
10568970	MSD-CLV-3A	SWSD0141-070121	2021-07-01 15:07	IS1-D	
10568970	MSD-CLV-3A	SWSD0139-070121	2021-07-01 15:37	IS2	2.50
10568970	MSD-CLV-3A	SWSD0138-070121	2021-07-01 16:07	IS3	1.12
10568970	MSD-CLV-3A	SWSD0137-070121	2021-07-01 16:37	IS4	0.82
10568970	MSD-CLV-3A	SWSD0136-070121	2021-07-01 17:07	IS5	0.65
10568970	MSD-CLV-3A	SWSD0135-070121	2021-07-01 18:07	IS6	0.50
10568970	MSD-CLV-3A	SWSD0134-070121	2021-07-01 19:07	IS7	
10568970	MSD-CLV-3A	SWSD0133-070121	2021-07-01 20:07	IS8	
10573163	MSD-CLV-3A	SWSD0189-080121	2021-08-01 18:18	IS1	
10573163	MSD-CLV-3A	SWSD0188-080121	2021-08-01 18:48	IS2	2.64
10573163	MSD-CLV-3A	SWSD0187-080121	2021-08-01 19:18	IS3	1.92
10573163	MSD-CLV-3A	SWSD0186-080121	2021-08-01 19:48	IS4	0.97
10573163	MSD-CLV-3A	SWSD0185-080121	2021-08-01 20:18	IS5	0.62
10573163	MSD-CLV-3A	SWSD0184-080121	2021-08-01 21:18	IS6	0.44
10573163	MSD-CLV-3A	SWSD0183-080121	2021-08-01 22:18	IS7	4.23
10573163	MSD-CLV-3A	SWSD0182-080121	2021-08-01 23:18	IS8	1.32
10574254	MSD-CLV-3A	SWSD0221-080821	2021-08-08 19:39	IS1	
10574254	MSD-CLV-3A	SWSD0220-080821	2021-08-08 20:09	IS2	14.09
10574254	MSD-CLV-3A	SWSD0219-080821	2021-08-08 20:39	IS3	8.92
10574254	MSD-CLV-3A	SWSD0218-080821	2021-08-08 20:44	IS4	8.83
10574254	MSD-CLV-3A	SWSD0217-080821	2021-08-08 21:39	IS5	3.34
10574254	MSD-CLV-3A	SWSD0216-080821	2021-08-08 22:39	IS6	1.52
10574254	MSD-CLV-3A	SWSD0215-080821	2021-08-08 23:39	IS7	
10560269	SWQC	SWSD0003-051221	2021-05-12 14:35	FB	
10561913	SWQC	SWSD0018-052421	2021-05-24 11:20	FB	
10562410	SWQC	SWSD0039-052621	2021-05-26 00:00	FB	
10562410	SWQC	SWSD0048-052621	2021-05-26 00:00	FB	

Empty cells indicate that level and/or velocity did not meet flow calculation criteria.

Table 13d. BPSOU 2021 Diagnostic Water Quality Results - Field

SDG	Location	Field Sample ID	Monitoring Date	Sample Type	Flow (cfs)
10563136	SWQC	SWSD0069-060121	2021-06-01 00:00	FB	
10563136	SWQC	SWSD0079-060121	2021-06-01 00:00	FB	
10565533	SWQC	SWSD0108-061521	2021-06-15 11:05	FB	
10565533	SWQC	SWSD0099-061521	2021-06-15 12:15	FB	
10568970	SWQC	SWSD0132-070721	2021-07-07 10:45	FB	
10568970	SWQC	SWSD0142-070721	2021-07-07 12:07	FB	
10571347	SWQC	SWSD0147-072221	2021-07-22 00:00	FB	
10573163	SWQC	SWSD0158-080321	2021-08-03 14:46	FB	
10573163	SWQC	SWSD0194-080321	2021-08-03 16:05	FB	
10573163	SWQC	SWSD0174-080321	2021-08-03 16:15	FB	
10574254	SWQC	SWSD0214-081121	2021-08-11 11:20	FB	
10574254	SWQC	SWSD0226-081121	2021-08-11 12:20	FB	
10575529	SWQC	SWSD0240-082021	2021-08-20 11:30	FB	
10575529	SWQC	SWSD0247-082021	2021-08-20 12:50	FB	
10576049	SWQC	SWSD0286-082521	2021-08-25 12:00	FB	
10576049	SWQC	SWSD0272-082521	2021-08-25 13:06	FB	
10583383	SWQC	SWSD0296-101421	2021-10-14 11:30	FB	
10561913	TX-HD-OUT	SWSD0016-051921	2021-05-19 16:11	IS1-N	
10561913	TX-HD-OUT	SWSD0017-051921	2021-05-19 16:11	IS1-D	
10561913	TX-HD-OUT	SWSD0015-052021	2021-05-20 03:28	IS2	
10561913	TX-HD-OUT	SWSD0014-052021	2021-05-20 17:15	IS3	
10562410	TX-HD-OUT	SWSD0046-052121	2021-05-21 13:27	IS1-N	
10562410	TX-HD-OUT	SWSD0047-052121	2021-05-21 13:27	IS1-D	
10562410	TX-HD-OUT	SWSD0045-052121	2021-05-21 16:41	IS2	
10562410	TX-HD-OUT	SWSD0044-052221	2021-05-22 16:41	IS3	
10562410	TX-HD-OUT	SWSD0043-052321	2021-05-23 03:00	IS4	
10562410	TX-HD-OUT	SWSD0042-052421	2021-05-24 08:44	IS5	
10563136	TX-HD-OUT	SWSD0082-052521	2021-05-25 17:43	IS1	
10563136	TX-HD-OUT	SWSD0081-052621	2021-05-26 09:15	IS2	
10563136	TX-HD-OUT	SWSD0080-052621	2021-05-26 23:13	IS3	
10565533	TX-HD-OUT	SWSD0116-061021	2021-06-10 15:33	IS1	2.74
10565533	TX-HD-OUT	SWSD0115-061021	2021-06-10 15:58	IS2	2.33
10565533	TX-HD-OUT	SWSD0114-061021	2021-06-10 16:02	IS3	2.68
10565533	TX-HD-OUT	SWSD0113-061021	2021-06-10 16:17	IS4	1.54
10565533	TX-HD-OUT	SWSD0112-061021	2021-06-10 16:36	IS5	0.94
10565533	TX-HD-OUT	SWSD0111-061021	2021-06-10 16:44	IS6	0.87
10565533	TX-HD-OUT	SWSD0110-061121	2021-06-11 01:19	IS7	
10565533	TX-HD-OUT	SWSD0109-061121	2021-06-11 03:16	IS8	
10573163	TX-HD-OUT	SWSD0192-080121	2021-08-01 21:14	IS1-N	
10573163	TX-HD-OUT	SWSD0193-080121	2021-08-01 21:14	IS1-D	
10573163	TX-HD-OUT	SWSD0191-080121	2021-08-01 21:44	IS2	3.68
10573163	TX-HD-OUT	SWSD0190-080121	2021-08-01 22:09	IS3	2.43
10574254	TX-HD-OUT	SWSD0224-080821	2021-08-08 18:54	IS1-N	
10574254	TX-HD-OUT	SWSD0225-080821	2021-08-08 18:54	IS1-D	
10574254	TX-HD-OUT	SWSD0223-080821	2021-08-08 18:59	IS2	0.86
10574254	TX-HD-OUT	SWSD0222-080821	2021-08-08 19:54	IS3	12.03

Empty cells indicate that level and/or velocity did not meet flow calculation criteria.

Table 13d. BPSOU 2021 Diagnostic Water Quality Results - Field

SDG	Location	Field Sample ID	Monitoring Date	Sample Type	Flow (cfs)
10575529	TX-HD-OUT	SWSD0245-081821	2021-08-18 01:46	IS2-N	1.47
10575529	TX-HD-OUT	SWSD0246-081821	2021-08-18 01:46	IS2-D	1.47
10575529	TX-HD-OUT	SWSD0244-081821	2021-08-18 02:16	IS3	
10575529	TX-HD-OUT	SWSD0243-081821	2021-08-18 02:46	IS4	
10575529	TX-HD-OUT	SWSD0242-081821	2021-08-18 03:16	IS5	
10575529	TX-HD-OUT	SWSD0241-081821	2021-08-18 03:19	IS6	
10576049	TX-HD-OUT	SWSD0284-082121	2021-08-21 19:00	IS1-N	
10576049	TX-HD-OUT	SWSD0285-082121	2021-08-21 19:00	IS1-D	
10576049	TX-HD-OUT	SWSD0283-082121	2021-08-21 19:30	IS2	
10576049	TX-HD-OUT	SWSD0282-082121	2021-08-21 20:00	IS3	
10576049	TX-HD-OUT	SWSD0281-082121	2021-08-21 20:30	IS4	
10576049	TX-HD-OUT	SWSD0280-082121	2021-08-21 20:35	IS5	
10576049	TX-HD-OUT	SWSD0279-082121	2021-08-21 20:42	IS6	
10576049	TX-HD-OUT	SWSD0278-082121	2021-08-21 20:44	IS7	
10576049	TX-HD-OUT	SWSD0277-082121	2021-08-21 20:47	IS8	

Empty cells indicate that level and/or velocity did not meet flow calculation criteria.

Table 14a. BPSOU 2021 Sediment Sample Results - **Metals**

SDG	Location	FieldSample ID	LabSample ID	Sample Date	Sample Type	Level A/B	As (mg/Kg)	Lab Q	Val Q	Status	Cd (mg/Kg)	Lab Q	Val Q	Status	Cu (mg/Kg)	Lab Q	Val Q	Status
10574875	SS-06G	SED001-081221-0002	10574875005	2021-08-12 10:20	FG	B	22.7	M1	J+	S	0.91			E	185	R1,M1	J	S
10574875	SS-06G	SED002-081221-0206	10574875006	2021-08-12 12:19	FG	B	26			E	1			E	135			E
10574875	SS-06A	SED003-081221-0002	10574875007	2021-08-12 13:40	FG	B	52.2			E	2			E	308			E
10574875	SS-06A	SED004-081221-0206	10574875008	2021-08-12 14:00	FG	B	36.5			E	1.8			E	197			E
10574875	SS-06A	SED005-081221-0612	10574875009	2021-08-12 14:02	FG	B	36.1			E	1.6			E	195			E
10574875	SS-01	SED006-081221-0002	10574875010	2021-08-12 15:00	FG	B	7			E	0.36			E	53.3			E
10574875	SS-01	SED007-081221-0206	10574875001	2021-08-12 15:02	FG-N	B	7.6			E	0.37			E	74.4			E
10574875	SS-01	SED008-081221-0612	10574875002	2021-08-12 15:04	FG	B	9.3			E	0.5			E	84.6			E
10574875	SS-01	SED010-081221-0206	10574875003	2021-08-12 15:02	FG-D	B	6.9				0.31				55.5			
10574875	SEQC	SED012-081321	10574875004	2021-08-13 09:06	FB	B	0.23	J			0.03	U			0.23	U		

See Table A3 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 14a. BPSOU 2021 Sediment Sample Results - **Metals**

SDG	Location	FieldSample ID	LabSample ID	Sample Date	Sample Type	Level A/B	Hg (mg/Kg)	Lab Q	Val Q	Status	Pb (mg/Kg)	Lab Q	Val Q	Status	Zn (mg/Kg)	Lab Q	Val Q	Status
10574875	SS-06G	SED001-081221-0002	10574875005	2021-08-12 10:20	FG	B	0.062			E	69.4	R1,M1	J+	S	466	R1,P6		E
10574875	SS-06G	SED002-081221-0206	10574875006	2021-08-12 12:19	FG	B	0.05			E	110			E	474			E
10574875	SS-06A	SED003-081221-0002	10574875007	2021-08-12 13:40	FG	B	0.35			E	141			E	942			E
10574875	SS-06A	SED004-081221-0206	10574875008	2021-08-12 14:00	FG	B	0.5			E	125			E	914			E
10574875	SS-06A	SED005-081221-0612	10574875009	2021-08-12 14:02	FG	B	0.15			E	108			E	713			E
10574875	SS-01	SED006-081221-0002	10574875010	2021-08-12 15:00	FG	B	0.024			E	24.9			E	149			E
10574875	SS-01	SED007-081221-0206	10574875001	2021-08-12 15:02	FG-N	B	0.027			E	22.2			E	153			E
10574875	SS-01	SED008-081221-0612	10574875002	2021-08-12 15:04	FG	B	0.053			E	27.3			E	194			E
10574875	SS-01	SED010-081221-0206	10574875003	2021-08-12 15:02	FG-D	B	0.023				23.8				129			
10574875	SEQC	SED012-081321	10574875004	2021-08-13 09:06	FB	B	0.0079	U			0.09	J			0.86	U		

See Table A3 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 14b. BPSOU 2021 Sediment Sample Results - **pH and TOC**

SDG	Location	FieldSample ID	LabSample ID	Sample Date	Sample Type	Level A/B	pH (SU)	Lab Q	Val Q	Status	TOC (mg/Kg)	Lab Q	Val Q	Status
10574875	SS-06G	SED001-081221-0002	S2109013-004A (pH) 10574875005 (TOC)	2021-08-12 10:20	FG	B	6.9		J	S	5700			E
10574875	SS-06G	SED002-081221-0206	S2109013-005A (pH) 10574875006 (TOC)	2021-08-12 12:19	FG	B	7.2		J	S	3270			E
10574875	SS-06A	SED003-081221-0002	S2109013-006A (pH) 10574875007 (TOC)	2021-08-12 13:40	FG	B	7.1		J	S	7680			E
10574875	SS-06A	SED004-081221-0206	S2109013-007A (pH) 10574875008 (TOC)	2021-08-12 14:00	FG	B	7.1		J	S	4680	R1	J	S
10574875	SS-01	SED006-081221-0002	S2109013-008A (pH) 10574875010 (TOC)	2021-08-12 15:00	FG	B	7.1		J	S	8540			E
10574875	SS-01	SED007-081221-0206	S2109013-001A (pH) 10574875001 (TOC)	2021-08-12 15:02	FG-N	B	7.1		J	S	8410		J	S
10574875	SS-01	SED008-081221-0612	S2109013-002A (pH) 10574875002 (TOC)	2021-08-12 15:04	FG	B	6.9		J	S	14800			E
10574875	SS-01	SED010-081221-0206	S2109013-003A (pH) 10574875003 (TOC)	2021-08-12 15:02	FG-D	B	7.2		J		4720		J	
10574875	SEQC	SED012-081321	10574875004	2021-08-13 09:06	FB	B					30.5	J		

See Table A3 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 14c. BPSOU 2021 Sediment Sample Results - **Particle Size**

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	Clay (%)	Lab Q	Val Q	Status	Sand (%)	Lab Q	Val Q	Status	Silt (%)	Lab Q	Val Q	Status	Texture
S2109013	SS-06G	SED001-081221-0002	S2109013-004A	2021-08-12 10:20	FG	B	4			E	92			E	4			E	Sand
S2109013	SS-06G	SED002-081221-0206	S2109013-005A	2021-08-12 12:19	FG	B	4			E	91			E	5			E	Sand
S2109013	SS-06A	SED003-081221-0002	S2109013-006A	2021-08-12 13:40	FG	B	5			E	90			E	5			E	Sand
S2109013	SS-06A	SED004-081221-0206	S2109013-007A	2021-08-12 14:00	FG	B	3			E	91			E	6			E	Sand
S2109013	SS-01	SED006-081221-0002	S2109013-008A	2021-08-12 15:00	FG	B	6			E	90			E	4			E	Sand
S2109013	SS-01	SED007-081221-0206	S2109013-001A	2021-08-12 15:02	FG-N	B	6			E	87			E	7		J	S	Loamy Sand
S2109013	SS-01	SED008-081221-0612	S2109013-002A	2021-08-12 15:04	FG	B	7			E	87			E	6			E	Loamy Sand
S2109013	SS-01	SED010-081221-0206	S2109013-003A	2021-08-12 15:02	FG-D	B	5				92				3		J		Sand

See Table A3 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table 15. BPSOU 2021 BMI Community Metrics Definitions

Metric	Definition
Taxa Richness	Number of BMI taxa per Hess sample, measures variety of assemblage. Historically the best measure of site conditions.
Shannon diversity	Influenced by taxa richness and distribution of individuals among taxa (evenness).
EPT/EPTC	Relative abundance of Ephemeroptera, Plecoptera, Trichoptera to Chironomidae ratio
Hydropsychinae/ Trichoptera	Hydropsychinae is relatively more tolerant of pollution than most other caddisflies.
Baetidae/ Ephemeroptera	Baetidae are most pollution-tolerant mayflies.
Density *+	Number of individuals per unit of area.
Biotic Index *	SUM (%RAi * ti), %RAi is the percent relative abundance of each taxon and ti is the tolerance value of the taxon.
Percent Filter Feeders *	Abundance of these functional feeding groups provides information on energy transfer, food resources, and organic loading.
EPT richness+	Richness of Ephemeroptera, Plecoptera, and Trichoptera
Metal Tolerance Index+	Quantifies changes in BMI community and based on Hilsenhoff's biotic index with tolerance values assigned to taxon.
Percent dominant	Percent of most dominant taxon in a sample.
Percent tolerant	Organisms (%) sensitive to perturbation.

(*) indicates metric is part of a subset used for indicating organic pollution and (+) indicates metric is part of a subset used for indicating metals pollution.

Table 16a. BPSOU 2021 SS-01 BMI Taxa

TAXA			Rep A	Rep B	Rep C	Rep D	Composite
INSECTA							
	EPHEMEROPTERA		326	314	1117	82	460
		Baetis tricaudatus cx.	326	233	582	58	300
		Diphetor hageni		81	500	12	148
		Leptophlebiidae			35	12	12
	PLECOPTERA				35		9
		Sweltsa sp.			35		9
	COLEOPTERA		2570	511	5338	815	2308
		Cleptelmis addenda	151		500	58	177
		Narpus concolor	58		35	35	32
		Optioservus quadrimaculatus	2128	430	4280	675	1878
		Zaitzevia sp.	233	81	523	47	221
	TRICHOPTERA		256		267	105	158
		Brachycentrus americanus	116		58	93	67
		Cheumatopsyche sp.	35				9
		Hydropsyche sp.	35				9
		Hydroptila sp.	35		93	12	35
		Micrasema bactro			116		29
		Unid. Trichoptera	35				9
	DIPTERA		11208	26693	12097	7316	14331
		Brillia sp.	174		233	744	288
		Chelifera sp.	35				9
		Conchapelopia/Thienemannimyia gr.	174	733	442		337
		Corynoneura sp.		384			96
		Cricotopus bicinctus		1896	849	244	747
		Cricotopus sp.	523	2291	1954	628	1349
		Diamesa sp.	174				44
		Dicranota sp.	93		58		38
		Eukiefferiella sp.	174		640	128	236
		Metachela sp.	35				9
		Micropsectra sp.	326	1896	1082	989	1073
		Muscidae	116	12	35		41
		Orthocladius/Cricotopus gr.	2791	8757	3198	1198	3986
		Pagastia sp.	1337	2291	640	628	1224
		Parakiefferiella sp.	174	1163		989	582
		Parametriocnemus sp.	1512	1163	442	500	904
		Phaenopsectra sp.	1838	384			556
		Potthastia sp.		733			183
		Prodiamesa sp.	174				44
		Rheocricotopus sp.	326	4187	1314	500	1582
		Rheotanytarsus sp.	174	384	442	128	282
		Simulium sp.	209	35	35	105	96
		Tanytarsus sp.	174			244	105
		Thienemanniella sp.		384	233	128	186
		Tipula (Sinotipula)			58	35	23
		Tvetenia sp.	675		442	128	311
HYDRACARINA			93		93	12	50
		Sperchon sp.	93		93	12	50
CNIDARIA				35			9
		Hydra sp.		35			9
TURBELLARIA			267		151	12	108
		Unid. Turbellaria	267		151	12	108
NEMATODA			35				9
		Unid. Nematoda	35				9
ANNELIDA							
	OLIGOCHAETA		3186	733	1942	919	1696
		Chaetogaster sp.				35	9
		Eiseniella tetraedra	58	35	35	35	41
		Enchytraeidae			209		52
		Haplotaxis sp.	35				9
		Limnodrilus sp.	151				38
		Nais sp.		582	558	163	326
		Ophidonais serpentina		81		58	35
		Rhyacodrilus sp.	1919	35	640	523	779
		Tubificinae	267				67
		Unid. Immature Tubificoid Naididae					
		w/ Capilliform Chaetae	756		500	105	340
MOLLUSCA							
	GASTROPODA			35		12	12
		Gyraulus sp.		35		12	12
	PELECYPODA		791	267	35	128	305
		Pisidium sp.	791	267	35	128	305

Table 16b. BPSOU 2021 SS-06A BMI Taxa

TAXA			Rep A	Rep B	Rep C	Rep D	Composite
INSECTA							
	EPHEMEROPTERA		116	81	93	116	102
		Baetis tricaudatus cx.	116	81	93	116	102
	COLEOPTERA		965	1,314	1,500	2,384	1,542
		Cleptelmis addenda	35	35	93		41
		Hydroporinae			35		9
		Optioservus quadrimaculatus	930	1,244	1,372	2,268	1,454
		Zaitzevia sp.		35		116	38
	TRICHOPTERA		9,850	13,841	10,363	18,665	13,181
		Brachycentrus occidentalis	4,105	2,826	3,838	4,419	3,797
		Cheumatopsyche sp.	3,954	5,199	2,361	6,978	4,623
		Glossosoma sp.	93			174	67
		Hydropsyche sp.	1,512	4,222	1,861	5,117	3,178
		Hydroptila sp.	151	1,396	1,977	1,919	1,361
		Lepidostoma sp.	35				9
		Oecetis avara gr.		198	326	58	146
	DIPTERA		3,698	6,546	4,570	9,827	6,162
		Conchapelopia/Thienemannimyia gr.	58	116	93	233	125
		Cricotopus sp.	116	1,314	1,140	1,570	1,035
		Diamesa sp.	116		151	116	96
		Dicranota sp.		81	58		35
		Eukiefferiella sp.	291	1,047	558	1,570	867
		Micropsectra sp.	1,396	2,128	558	930	1,253
		Orthocladius/Cricotopus gr.	151	116	1,140	116	381
		Pagastia sp.	640	930	698	1,570	960
		Parametriocnemus sp.				233	58
		Polypedilum sp.				233	58
		Rheotanytarsus sp.				116	29
		Simulium sp.	872	465	58	3,140	1,134
		Tipula (Sinotipula)		349	116		116
		Tvetenia sp.	58				15
HYDRACARINA				232	418	58	177
		Hygrobates sp.		81	116		49
		Sperchon sp.		151	267	58	119
		Unid. Hydracarina			35		9
CRUSTACEA							
	ISOPODA					58	15
		Caecidotea sp.				58	15
NEMATODA			35	81		58	44
		Unid. Nematoda	35	81		58	44
ANNELIDA							
	OLIGOCHAETA		907	582	209	2,965	1,167
		Eiseniella tetraedra			35		9
		Enchytraeidae	116	35		116	67
		Nais sp.	35				9
		Tubificinae				58	15
		Unid. Immature Tubificoid Naididae					
		w/ Capilliform Chaetae	756	547	174	2,791	1,067
MOLLUSCA							
	GASTROPODA		418	1,129	988	233	692
		Gyraulus sp.	209	198	174		145
		Lymnaea sp.	209	733	698	233	468
		Physa sp.		198	116		79
	PELECYPODA		640	81	209	1,686	654
		Pisidium sp.	640	81	209	1,686	654

Table 16c. BPSOU 2021 SS-06G BMI Taxa

TAXA			Rep A	Rep B	Rep C	Rep D	Composite
INSECTA							
	EPHEMEROPTERA		151	291	105	116	166
		Baetis tricaudatus cx.	151	291	105	116	166
	COLEOPTERA		582	3,617	1,268	4,292	2,440
		Cleptelmis addenda			12	35	12
		Optioservus divergens	12	93	23	58	47
		Optioservus quadrimaculatus	547	3,524	1,198	4,164	2,358
		Zaitzevia sp.	23		35	35	23
	TRICHOPTERA		1,384	4,466	3,687	6,268	3,952
		Brachycentrus occidentalis	442	2,245	582	1,570	1,210
		Cheumatopsyche sp.	302	756	965	2,128	1,038
		Glossosoma sp.	35			35	18
		Hydropsyche sp.	605	1,372	2,140	2,500	1,654
		Hydroptila sp.				35	9
		Oecetis avara gr.		93			23
	DIPTERA		792	849	1,350	2,081	1,270
		Conchapelopia/Thienemannimyia gr.		116	23		35
		Cricotopus sp.	35	93	70	93	73
		Diamesa sp.			23	58	20
		Dicranota sp.	35				9
		Eukiefferiella sp.	221		140	151	128
		Micropsectra sp.	12	93	93		50
		Nanocladius sp.		35			9
		Orthocladius/Cricotopus gr.	47	35	23	58	41
		Pagastia sp.	23	349	105	209	172
		Parametriocnemus sp.	12	35	12		15
		Polypedilum sp.	23	35	35	116	52
		Simulium sp.	384	58	791	1,396	657
		Thienemanniella sp.			23		6
		Tvetenia sp.			12		3
HYDRACARINA				93			23
		Sperchon sp.		93			23
NEMATODA			12	58	35	116	55
		Unid. Nematoda	12	58	35	116	55
ANNELIDA							
	OLIGOCHAETA		849	6,757	418	4,605	3,158
		Enchytraeidae	23		23	93	35
		Rhyacodrilus sp.	47	326		93	117
		Unid. Immature Tubificoid Naididae					
		w/ Capilliform Chaetae	779	6,431	395	4,419	3,006
	HIRUDINIDA		12				3
		Unid. Hirudinida	12				3
MOLLUSCA							
	GASTROPODA		221	325	105	58	178
		Gyraulus sp.	128	209	93		108
		Lymnaea sp.	58	116	12	58	61
		Physa sp.	35				9
	PELECYPODA		140	174	12	291	154
		Pisidium sp.	140	174	12	291	154

Table 17a. BPSOU 2021 SS-01 BMI Community Metrics

Metric	Rep A	Rep B	Rep C	Rep D	Composite
Total individuals (#/sq. meter)	18,732	28,588	21,075	9,401	19,455
Taxa Richness	41	27	36	35	56
Shannon-Weaver (H')	4.29	3.47	4.13	4.20	4.37
Total EPT Taxa	6	2	7	5	10
EPT Index (% of Total Taxa)	15	7	19	14	18
Ephemeroptera abundance (% of Total Density)	2	1	5	1	2
EPT/EPTC (Ratio)	0.05	0.01	0.11	0.03	0.04
Hydropsychinae/Trichoptera (Ratio)	0.27	0.00	0.00	0.00	0.11
Baetidae/Ephemeroptera (Ratio)	1.00	1.00	0.97	0.85	0.97
Percent Filter Feeders (% of Total Density)	8	2	3	7	5
Percent Dominant (% of Total Density)	15	31	20	13	21
Percent Tolerant (% of Total Taxa)	22	37	19	29	23
Hilsenhoff Biotic Index	4.92	4.78	5.05	4.64	4.89
Metals Tolerance Index	4.86	5.94	5.40	5.03	5.41

Table 17b. BPSOU 2021 SS-06A BMI Community Metrics

Metric	Rep A	Rep B	Rep C	Rep D	Composite
Total individuals (#/sq. meter)	16629	23887	18350	36050	23736
Taxa Richness	25	27	28	28	40
Shannon-Weaver (H')	3.38	3.62	3.79	3.69	3.82
Total EPT Taxa	7	6	6	7	8
EPT Index (% of Total Taxa)	28	22	21	25	20
Ephemeroptera abundance (% of Total Density)	1	<1	1	<1	<1
EPT/EPTC (Ratio)	0.78	0.71	0.70	0.73	0.73
Hydropsychinae/Trichoptera (Ratio)	0.55	0.68	0.41	0.65	0.59
Baetidae/Ephemeroptera (Ratio)	1.00	1.00	1.00	1.00	1.00
Percent Filter Feeders (% of Total Density)	67	54	45	60	57
Percent Dominant (% of Total Density)	25	22	21	19	20
Percent Tolerant (% of Total Taxa)	20	19	18	25	20
Hilsenhoff Biotic Index	4.19	4.73	4.54	4.90	4.67
Metals Tolerance Index	4.28	4.87	4.83	5.10	4.85

Table 17c. BPSOU 2021 SS-06G BMI Community Metrics

Metric	Rep A	Rep B	Rep C	Rep D	Composite
Total individuals (#/sq. meter)	4,143	16,630	6,980	17,827	11,399
Taxa Richness	26	23	26	23	35
Shannon-Weaver (H')	3.66	2.81	3.13	3.02	3.20
Total EPT Taxa	5	5	4	6	7
EPT Index (% of Total Taxa)	19	22	15	26	20
Ephemeroptera abundance (% of Total Density)	4	2	2	1	1
EPT/EPTC (Ratio)	0.80	0.86	0.87	0.90	0.87
Hydropsychinae/Trichoptera (Ratio)	0.66	0.48	0.84	0.74	0.68
Baetidae/Ephemeroptera (Ratio)	1.00	1.00	1.00	1.00	1.00
Percent Filter Feeders (% of Total Density)	45	28	64	44	41
Percent Dominant (% of Total Density)	19	39	31	25	26
Percent Tolerant (% of Total Taxa)	23	17	23	22	23
Hilsenhoff Biotic Index	5.03	4.29	4.90	4.78	4.68
Metals Tolerance Index	4.91	4.56	5.04	4.94	4.84

Table 18a. 2021 SS-01 BMI Taxa Tolerance Values

TAXA			Metals Tolerance Index[1]	Biotic Index[1]
INSECTA				
	EPHEMEROPTERA			
		Baetis tricaudatus cx.	4	5
		Diphetor hageni	5	1
		Leptophlebiidae		
	PLECOPTERA			
		Sweltsa sp.	0	2
	COLEOPTERA			
		Cleptelmis addenda	4	4
		Narpus concolor	2	1
		Optioservus quadrimaculatus	5	5
		Zaitzevia sp.	4	3
	TRICHOPTERA			
		Brachycentrus americanus	1	4
		Cheumatopsyche sp.	5	5
		Hydropsyche sp.	5	5
		Hydroptila sp.	6	4
		Micrasema bactro	1	2
		Unid. Trichoptera		
	DIPTERA			
		Brillia sp.	4	4
		Chelifera sp.	5	4
		Conchapelopia/Thienemannimyia gr.	5	3
		Corynoneura sp.	7	4
		Cricotopus bicinctus	7	10
		Cricotopus sp.	7	10
		Diamesa sp.	5	9
		Dicranota sp.	3	2
		Eukiefferiella sp.	8	9
		Metachela sp.		
		Micropsectra sp.	4	1
		Muscidae		
		Orthocladius/Cricotopus gr.		
		Pagastia sp.	1	9
		Parakiefferiella sp.		
		Parametriocnemus sp.	5	4
		Phaenopsectra sp.	7	4
		Potthastia sp.		
		Prodiamesa sp.	3	3
		Rheocricotopus sp.	4	5
		Rheotanytarsus sp.	6	1
		Simulium sp.	6	6
		Tanytarsus sp.	6	3
		Thienemanniella sp.	6	4
		Tipula (Sinotipula)	4	3
		Tvetenia sp.	5	4
HYDRACARINA				
		Sperchon sp.		
CNIDARIA				
		Hydra sp.	8	3
TURBELLARIA				
		Unid. Turbellaria	5	5
NEMATODA				
		Unid. Nematoda	5	5
ANNELIDA				
	OLIGOCHAETA			
		Chaetogaster sp.		
		Eiseniella tetraedra		
		Enchytraeidae	4	1
		Haplotaxis sp.		
		Limnodrilus sp.		
		Nais sp.		
		Ophidonais serpentina		
		Rhyacodrilus sp.		
		Tubificinae		
		Unid. Immature Tubificoid Naididae w/ Capilliform Chaetae		
MOLLUSCA				
	GASTROPODA			
		Gyraulus sp.	8	3
	PELECYPODA			
		Pisidium sp.	8	3

[1]Biotic index and metal tolerance index values from McGuire (2012) and Stagliano (2020). When values for an observed species were not available, the index value for the species' genus was used, if available. Organisms for which index values could not be determined based on McGuire (2012) and Stagliano (2020) were excluded from the biotic index and metals tolerance index calculations.

Table 18b. 2021 SS-06A BMI Taxa Tolerance Values

TAXA			Metals Tolerance Index[1]	Biotic Index[1]
INSECTA				
	EPHEMEROPTERA			
		Baetis tricaudatus cx.	4	5
	COLEOPTERA			
		Cleptelmis addenda	4	4
		Hydroporinae		
		Optioservus quadrimaculatus	5	5
		Zaitzevia sp.	4	3
	TRICHOPTERA			
		Brachycentrus occidentalis	2	3
		Cheumatopsyche sp.	5	5
		Glossosoma sp.	0	2
		Hydropsyche sp.	5	5
		Hydroptila sp.	6	4
		Lepidostoma sp.	1	1
		Oecetis avara gr.	8	3
	DIPTERA			
		Conchapelopia/Thienemannimyia gr.	5	3
		Cricotopus sp.	7	10
		Diamesa sp.	5	9
		Dicranota sp.	3	2
		Eukiefferiella sp.	8	9
		Micropsectra sp.	4	1
		Orthocladius/Cricotopus gr.		
		Pagastia sp.	1	9
		Parametriocnemus sp.	5	4
			6	4
		Rheotanytarsus sp.	6	1
		Simulium sp.	6	6
		Tipula (Sinotipula)	4	3
		Tvetenia sp.	5	4
HYDRACARINA				
		Hygrobates sp.		
		Sperchon sp.		
		Unid. Hydracarina		
CRUSTACEA				
	ISOPODA			
		Caecidotea sp.	8	5
NEMATODA				
		Unid. Nematoda	5	5
ANNELIDA				
	OLIGOCHAETA			
		Eiseniella tetraedra		
		Enchytraeidae	4	1
		Nais sp.		
		Tubificinae		
		Unid. Immature Tubificoid Naididae w/ Capilliform Chaetae		
MOLLUSCA				
	GASTROPODA			
		Gyraulus sp.	8	3
		Lymnaea sp.		
		Physa sp.		
	PELECYPODA			
		Pisidium sp.	8	3

[1]Biotic index and metal tolerance index values from McGuire (2012) and Stagliano (2020). When values for an observed species were not available, the index value for the species' genus was used, if available. Organisms for which index values could not be determined based on McGuire (2012) and Stagliano (2020) were excluded from the biotic index and metals tolerance index calculations.

Table 18c. 2021 SS-06G BMI Taxa Tolerance Values

TAXA			Metals Tolerance Index[1]	Biotic Index[1]
INSECTA				
	EPHEMEROPTERA			
		Baetis tricaudatus cx.	4	5
	COLEOPTERA			
		Cleptelmis addenda	4	4
		Optioservus divergens	5	5
		Optioservus quadrimaculatus	5	5
		Zaitzevia sp.	4	3
	TRICHOPTERA			
		Brachycentrus occidentalis	2	3
		Cheumatopsyche sp.	5	5
		Glossosoma sp.	0	2
		Hydropsyche sp.	5	5
		Hydroptila sp.	6	4
		Oecetis avara gr.	8	3
	DIPTERA			
		Conchapelopia/Thienemannimyia gr.	5	3
		Cricotopus sp.	7	10
		Diamesa sp.	5	9
		Dicranota sp.	3	2
		Eukiefferiella sp.	8	9
		Micropsectra sp.	4	1
		Nanocladius sp.	3	4
		Orthocladius/Cricotopus gr.		
		Pagastia sp.	1	9
		Parametriocnemus sp.	5	4
		Polypedilum sp.	6	4
		Simulium sp.	6	6
		Thienemanniella sp.	6	4
		Tvetenia sp.	5	4
HYDRACARINA				
		Sperchon sp.		
NEMATODA				
		Unid. Nematoda	5	5
ANNELIDA				
	OLIGOCHAETA			
		Enchytraeidae	4	1
		Rhyacodrilus sp.		
		Unid. Immature Tubificoid Naididae w/ Capilliform Chaetae		
	HIRUDINIDA			
		Unid. Hirudinida		
MOLLUSCA				
	GASTROPODA			
		Gyraulus sp.	8	3
		Lymnaea sp.		
		Physa sp.		
	PELECYPODA			
		Pisidium sp.	8	3

[1]Biotic index and metal tolerance index values from McGuire (2012) and Stagliano (2020). When values for an observed species were not available, the index value for the species' genus was used, if available. Organisms for which index values could not be determined based on McGuire (2012) and Stagliano (2020) were excluded from the biotic index and metals tolerance index calculations.

Table 19. BPSOU 2021 BMI In-situ Parameters

Paramter	Site		
	SS-01	SS-06A	SS-06G
Date	9/22/2020	9/21/2020	9/21/2020
Temp (°C)	11.0	14.3	13.0
DO (mg/L)	8.75	10.84	10.60
SC (µs/cm)	302.8	1417.0	1346.0
pH (su)	7.65	7.89	7.83
ORP (mV)	123.0	190.7	188.1

Figures

Figure 1 – BPSOU 2021 Surface Water Monitoring Stations

Figure 2 - BPSOU 2021 Surface Water Monitoring Network Schematic Diagram

Figure 3 –BPSOU 2021 Climate Map - Vicinity Climate Stations

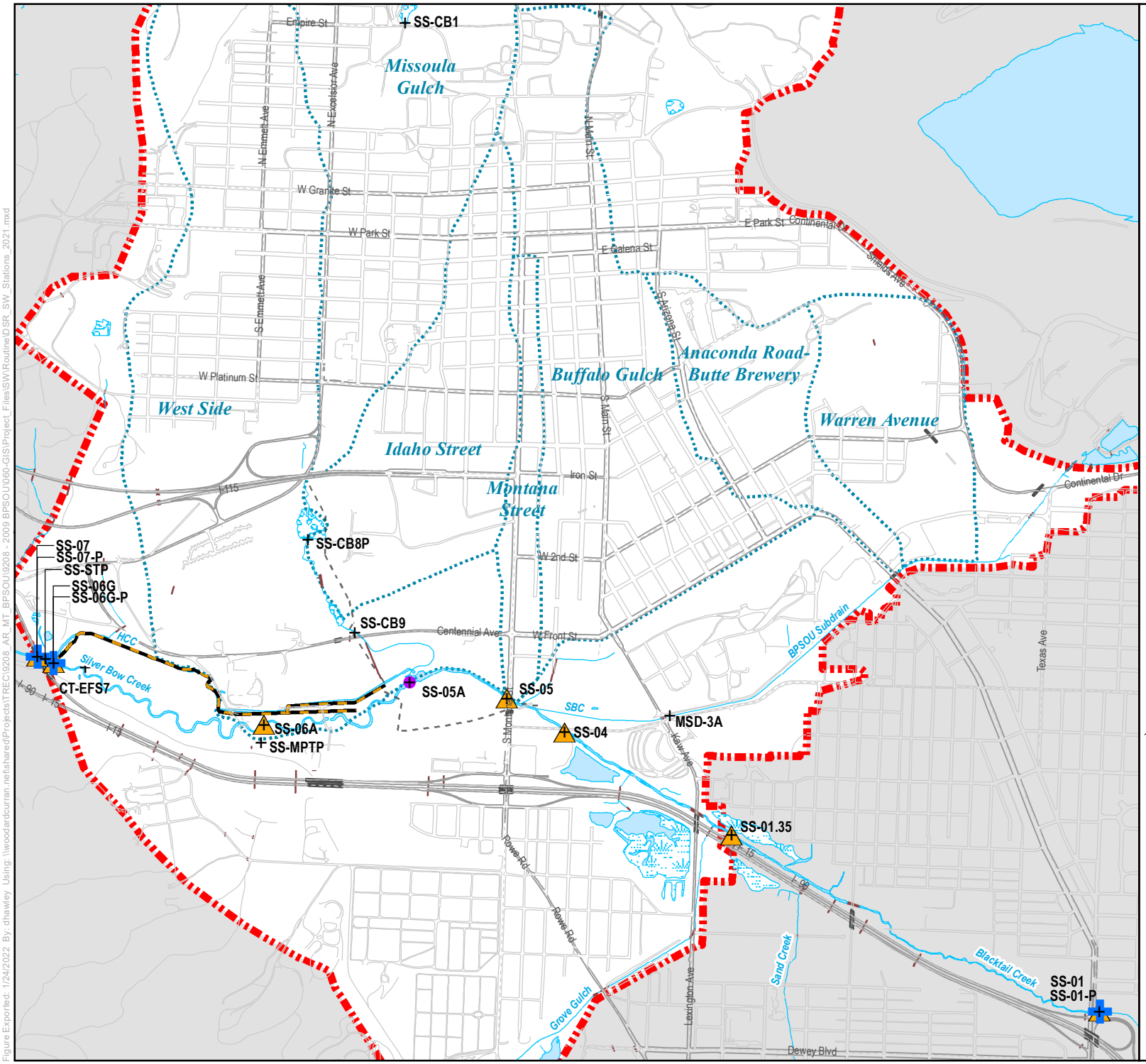
Figure 4 – BPSOU 2021 Surface Water Monitoring Stations -Diagnostic

Figure 5 – BPSOU 2021 Surface Water Monitoring Network Schematic Diagram - Diagnostic

Figure 6 – BPSOU 2021 Sediment, BMI, and Habitat Monitoring Locations

Figure 7 – BPSOU 2021 Climate Station Daily Precipitation

- 7a: BPSOU 2021 Climate Station Precipitation - Basin Creek
- 7b: BPSOU 2021 Climate Station Precipitation - BMMA
- 7c: BPSOU 2021 Climate Station Precipitation - BSB Shop
- 7d: BPSOU 2021 Climate Station Precipitation - BTL/LAO
- 7e: BPSOU 2021 Climate Station Precipitation - CB-1
- 7f: BPSOU 2021 Climate Station Precipitation - Kelley Mine
- 7g: BPSOU 2021 Climate Station Precipitation - Blacktail



Atlantic Richfield Company
A BP affiliated company

2021 Surface Water Data Summary Report

Butte Priority Soils Operable Unit

Surface Water Monitoring Stations - Figure 1

N

Legend

- Wet Weather & Normal Flow
- Wet Weather
- Normal Flow
- Continuous Recorder
- Drainage Line
- Culvert or Pipe
- Drainage Basin Boundary
- Sediment Basin
- Swamp
- Water
- BPSOU Boundary

1,000 500 0 1,000 2,000 Feet

TREC, Inc.
Engineering & Environmental Management

A Woodard & Curran Company

Project #: 0231347.03
Map Created: January 2022

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk. **Data Sources:**

Figure Exported: 1/24/2022 By: dhawley Using: \\woodardcurran.net\shared\Projects\TREC\9208_AR_MT_BPSOU\9208 - 2009 BPSOU\060-GIS\Project Files\SW\Routine\DSR_SW_Stations_2021.mxd

LEGEND
GRAY - STAGE/FLOW STATIONS
BLUE - WET WEATHER STATIONS
MAGENTA - WET WEATHER & NORMAL FLOW STATIONS
RED - NORMAL FLOW STATION

SS-CB1
WEST SIDE DRAINAGE
MISSOULA GULCH DRAINAGE
IDAHO ST DRAINAGE
SS-CB8P
SS-CB9
MG BASE DIVERSION PIPE
MG STORM DIVERSION CHANNEL
MSD PIPELINE
SILVER BOW CREEK DIVERSION CHANNEL
MSD-HCC
BUTTE METRO SEWAGE TREATMENT PLANT
HCC
BTL
HCC
MONTANA STREET
BUFFALO GULCH DRAINAGE - A
E. BUFFALO GULCH
MID BUFF. GUL.
ANACONDA RD DRAINAGE
WARREN AVE DRAINAGE
upper Silver Bow Creek
SS-STP
SHEET PILING DAM
CT-EFS7
SILVER BOW CREEK
SS-07-P
SS-07
SS-06G
SS-06G-P
GROVE GULCH
SS-MPTP
SS-06A
SS-05A
SS-05
SS-04
SS-01.35
BLACK TAIL CREEK
GROVE GULCH
SS-01
SS-01-P
GROVE GULCH
N

TREC, Inc.
Engineering & Environmental Management
A Woodard & Curran Company

BPSOU SURFACE WATER
2021 MONITORING NETWORK
SCHEMATIC DIAGRAM

FIGURE 2

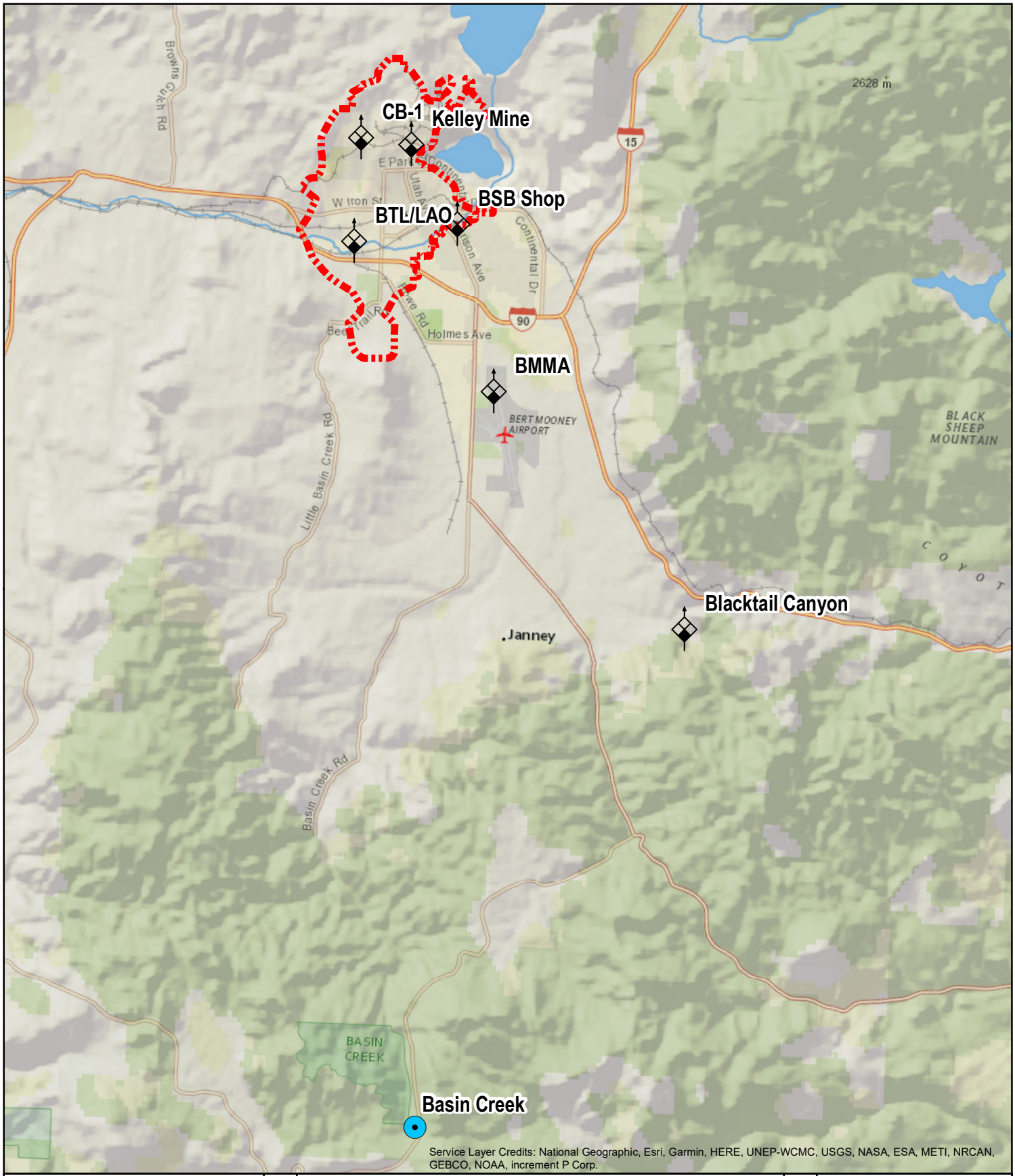
Drawn: JEB	Checked: AD	Approved: SB

Rev. #	Description	Date
-	-	-
-	-	-
-	-	-

DRAWING: \\WOODARDCURRAN.NET\SHARED\PROJECTS\TREC\9208_AR_MT_BPSOU\9208 - 2009 BPSOU\9208-003_SW-GW_MONITORING\01_SURFACEWATER\03_DSRS\2013-2014\CAD FILES - FIGURE 2_2013&2014\BPSOU-SCHEMATIC_FIG2_RECOVER_RECOVER.DWG

Print Date: 3/8/2022 1:41 PM

Copyright 2021, TREC Inc.



Service Layer Credits: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

Atlantic Richfield Company
A BP affiliated company

Climate Map - 2021

Butte Priority Soils Operable Unit

Vicinity Climate Stations - Figure 3

Legend

- Precipitation Gauge
- Snow Pillow
- BPSOU Boundary

0 0.5 1 2 Miles

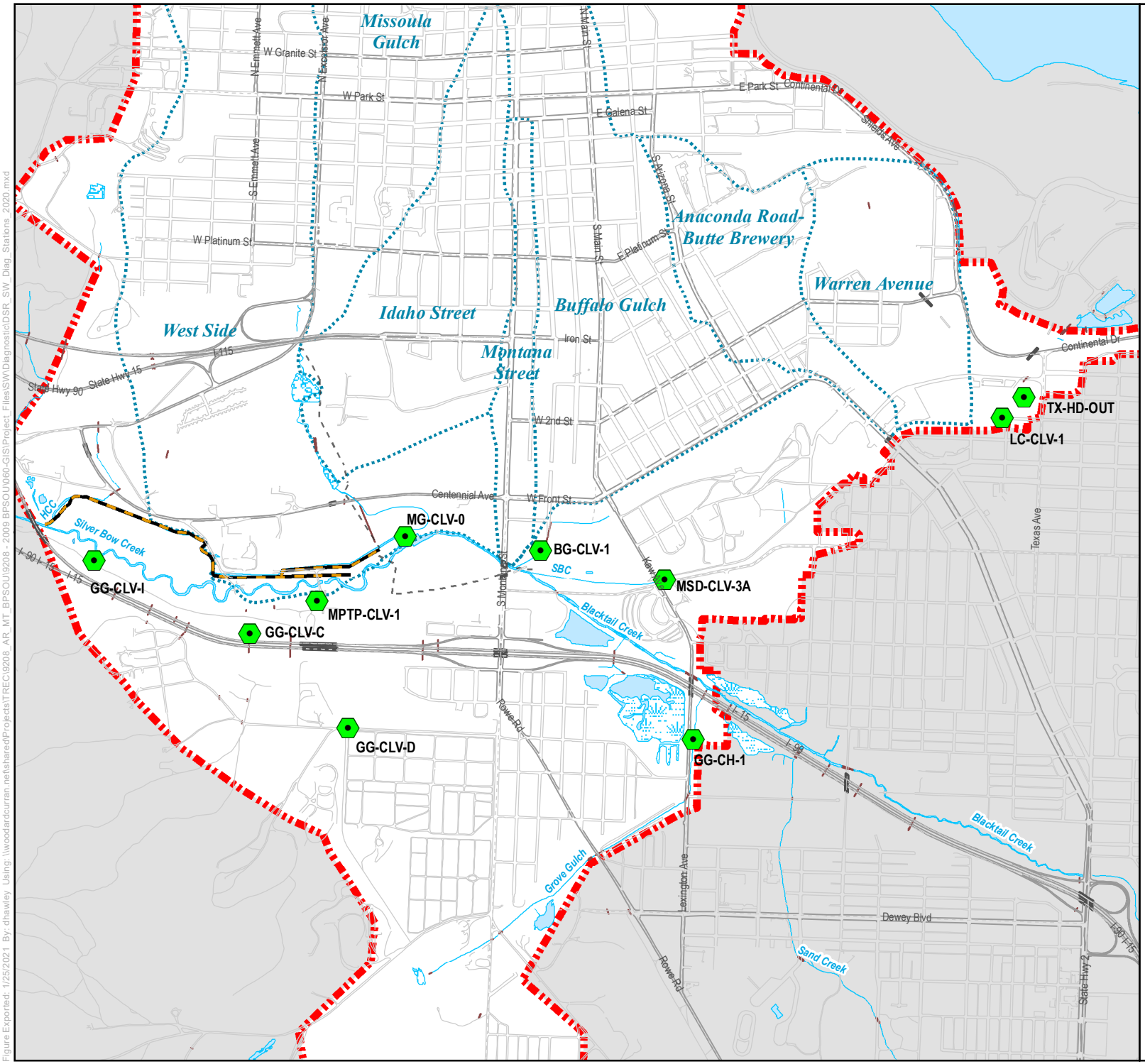
N

TREC, Inc.
Engineering & Environmental Management
A Woodard & Curran Company

Project #: 0231347.03
Map Created: January 2021

Figure Exported: 1/27/2021 By: dhawley Using: \\woodardcurran.net\shared\Projects\TREC\9208_AR_MT_BPSOU\9208 - 2009 BPSOU\060-GIS\Project_Files\SW\RoutineDSR_SW_Climate_2020.mxd

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk. **Data Sources:**



Atlantic Richfield Company
A BP affiliated company

2021 Surface Water Data Summary Report

Butte Priority Soils Operable Unit

Surface Water Diagnostic Monitoring Stations - Figure 4

N

Legend

- ISCO Sampler and Continuous Flow
- Drainage Line
- Culvert or Pipe
- Drainage Basin Boundary
- Sediment Basin
- Swamp
- Water
- BPSOU Boundary

900 450 0 900 1,800 Feet

TREC, Inc.
Engineering & Environmental Management

A Woodard & Curran Company

Project #: 0231347.03
Map Created: January 2021

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk. **Data Sources:**

Figure Exported: 1/25/2021 By: dhawley Using: \\woodardcurran.net\shared\Projects\TREC\9208_AR_MT_BPSOU\9208 - 2009 BPSOU\060-GIS\Project_Files\SW\Diagnostic\DSR_SW_Diag_Stations_2020.mxd

LEGEND
ORANGE - DIAGNOSTIC STATIONS

WEST SIDE DRAINAGE
MISSOULA GULCH DRAINAGE
IDAHO ST DRAINAGE
BUTTE METRO SEWAGE TREATMENT PLANT
HCC
BTL
MG BASE DIVERSION PIPE
MG STORM DIVERSION CHANNEL
MSD PIPELINE
SILVER BOW CREEK DIVERSION CHANNEL
MSD-HCC
MONTANA STREET
BUFFALO GULCH DRAINAGE - A
E. BUFFALO GULCH
MID.BUFF. GUL.
ANACONDA RD DRAINAGE
WARREN AVE DRAINAGE
TX-HD-OUT
LC-CLV-1
upper Silver Bow Creek
BG-CLV-1
MSD-CLV-3A
SHEET PILING DAM
SILVER BOW CREEK
MG-CLV-0
GG-CLV-I
GROVE GULCH
MPTP-CLV-1
MONTANA POLE TREATMENT PLANT
GG-CLV-C
GG-CLV-D
GROVE GULCH
BLACK TAIL CREEK
GG-CH-1
GROVE GULCH
N

TREC, Inc.
Engineering & Environmental Management
A Woodard & Curran Company

BPSOU 2021 SURFACE WATER MONITORING NETWORK SCHEMATIC DIAGRAM - DIAGNOSTIC

FIGURE 5

Drawn: SG	Checked: ME	Approved: TD

Rev. #	Description	Date
-	-	-
-	-	-
-	-	-

DRAWING: \\WOODARDCURRAN.NET\SHARED\PROJECTS\TREC\9208_AR_MT_BPSOU\9208 - 2009 BPSOU\9208-003_SW-GW_MONITORING\01_SURFACEWATER\03_DSRS\2013-2014\CAD FILES - FIGURE 2_2013&2014\BPSOU-SCHEMATIC_FIG2_RECOVER.DWG

Print Date: 3/31/2021 12:20 PM

Copyright 2014, TREC Inc.

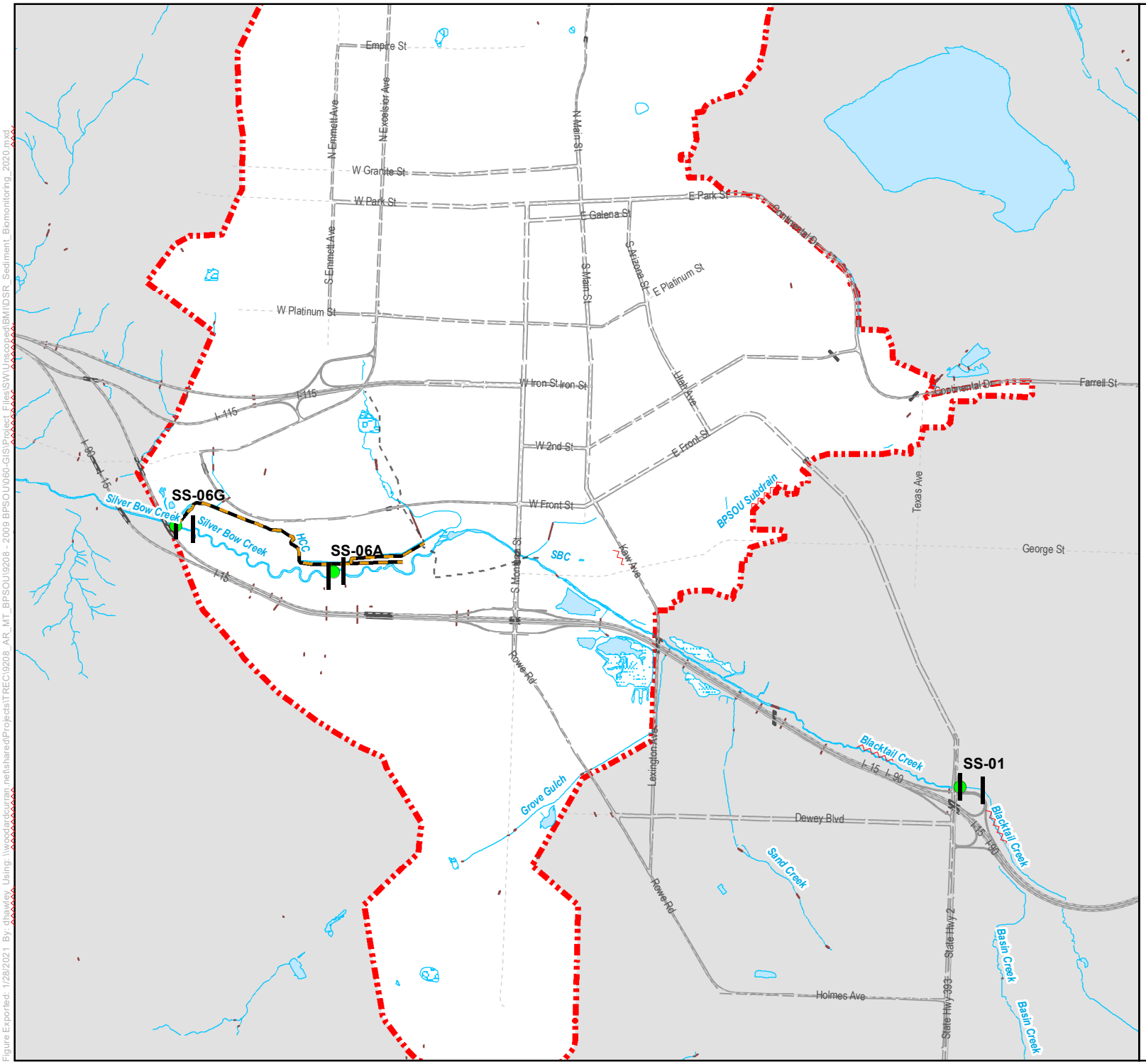


Figure Exported: 1/28/2021 By: dhawley Using: \\woodardcuran.net\shared\Projects\TREC\9208_AR_MT_BPSOU\9208 - 2009 BPSOU\060-GIS\Project Files\SW\Updated\BMIDSR_Sediment_Biomonitoring_2020.mxd

Atlantic Richfield Company
A BP affiliated company

2021 Surface Water Data Summary Report

Butte Priority Soils Operable Unit

Sediment, BMI and Habitat Monitoring Locations - Figure 6

N

Legend

- Sampling Reach
- Reach SW Site
- Drainage Line
- Culvert or Pipe
- Sediment Basin
- Swamp
- Water

1,000 500 0 1,000 2,000 Feet

TREC, Inc.
Engineering & Environmental Management

A Woodard & Curran Company

Project #: 0231347.03
Map Created: January 2021

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk. **Data Sources:**

Figure 7a. BPSOU 2021 Climate Station Precipitation - Basin Creek

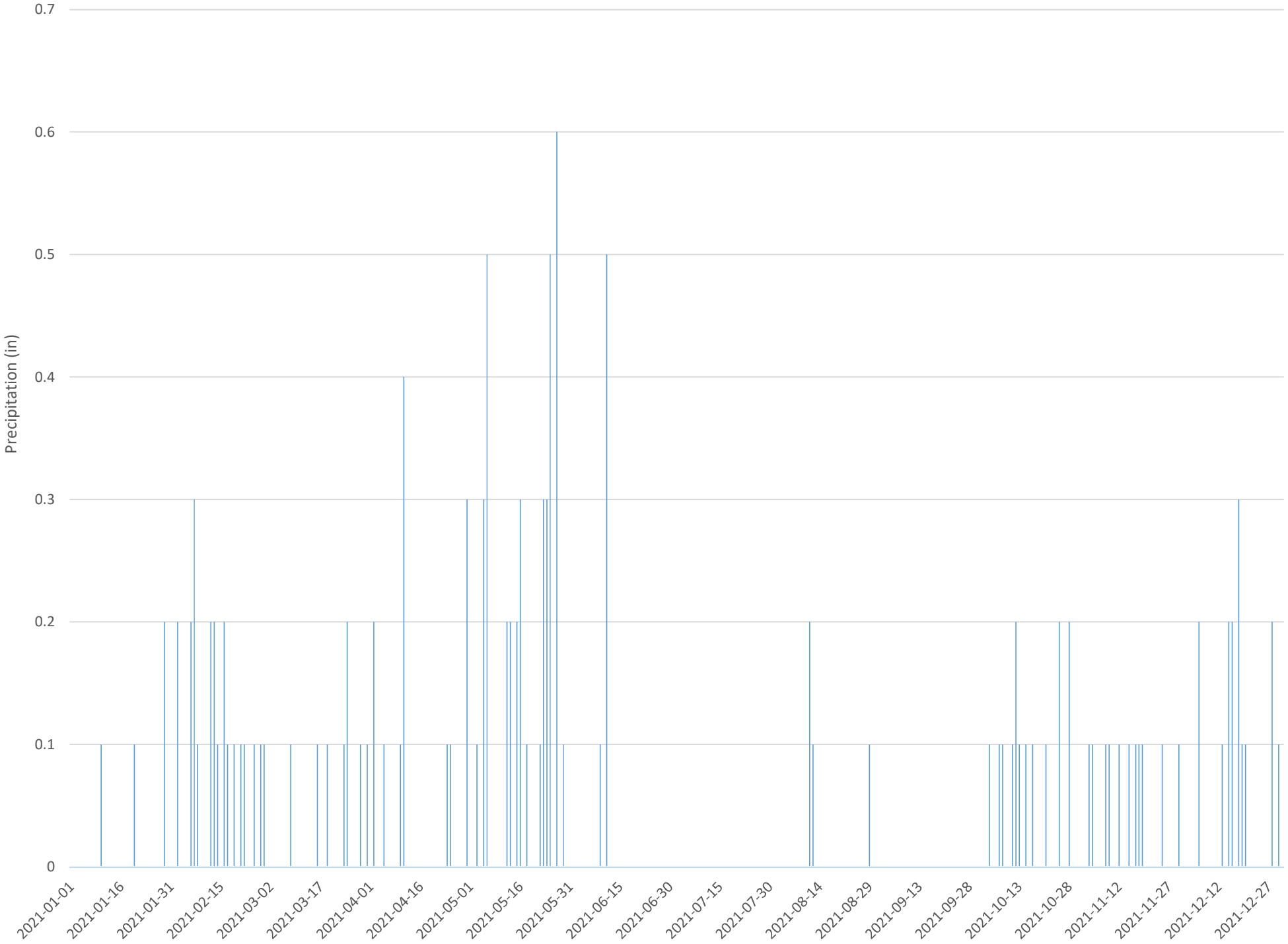


Figure 7b. BPSOU 2021 Climate Station Precipitation - BMMA

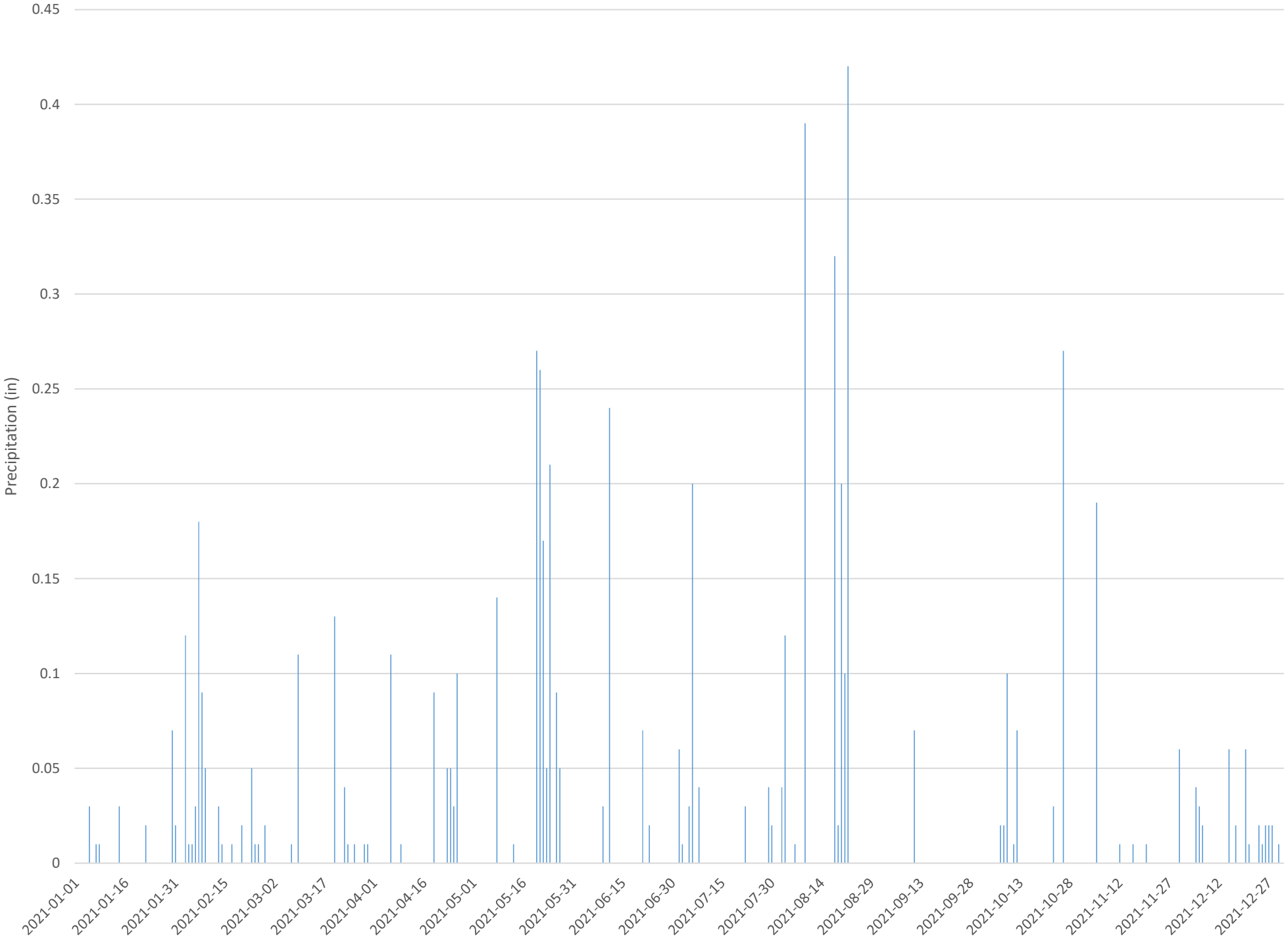


Figure 7c. BPSOU 2021 Climate Station Precipitation - BSB Shop

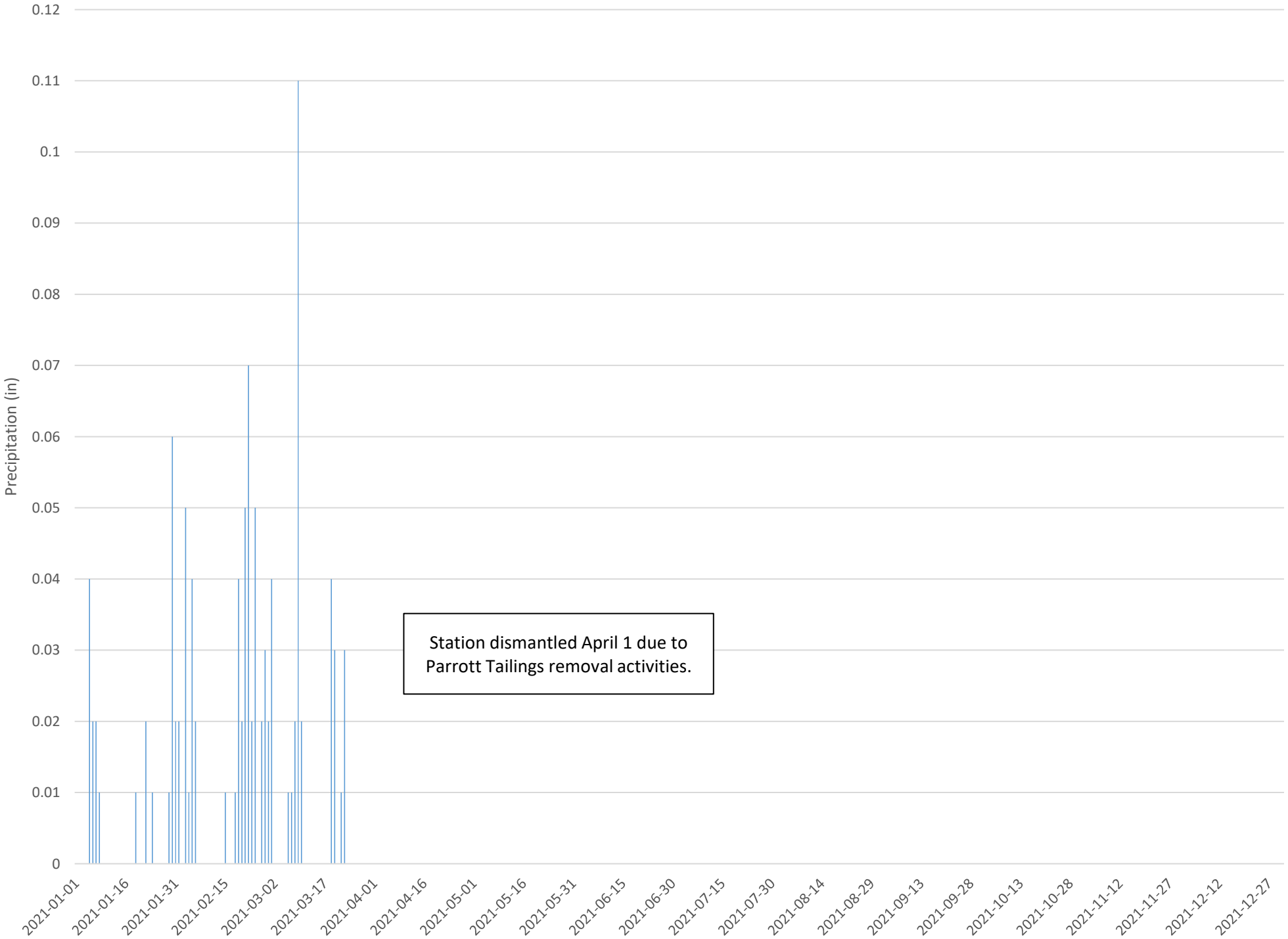


Figure 7d. BPSOU 2021 Climate Station Precipitation - BTL/LAO

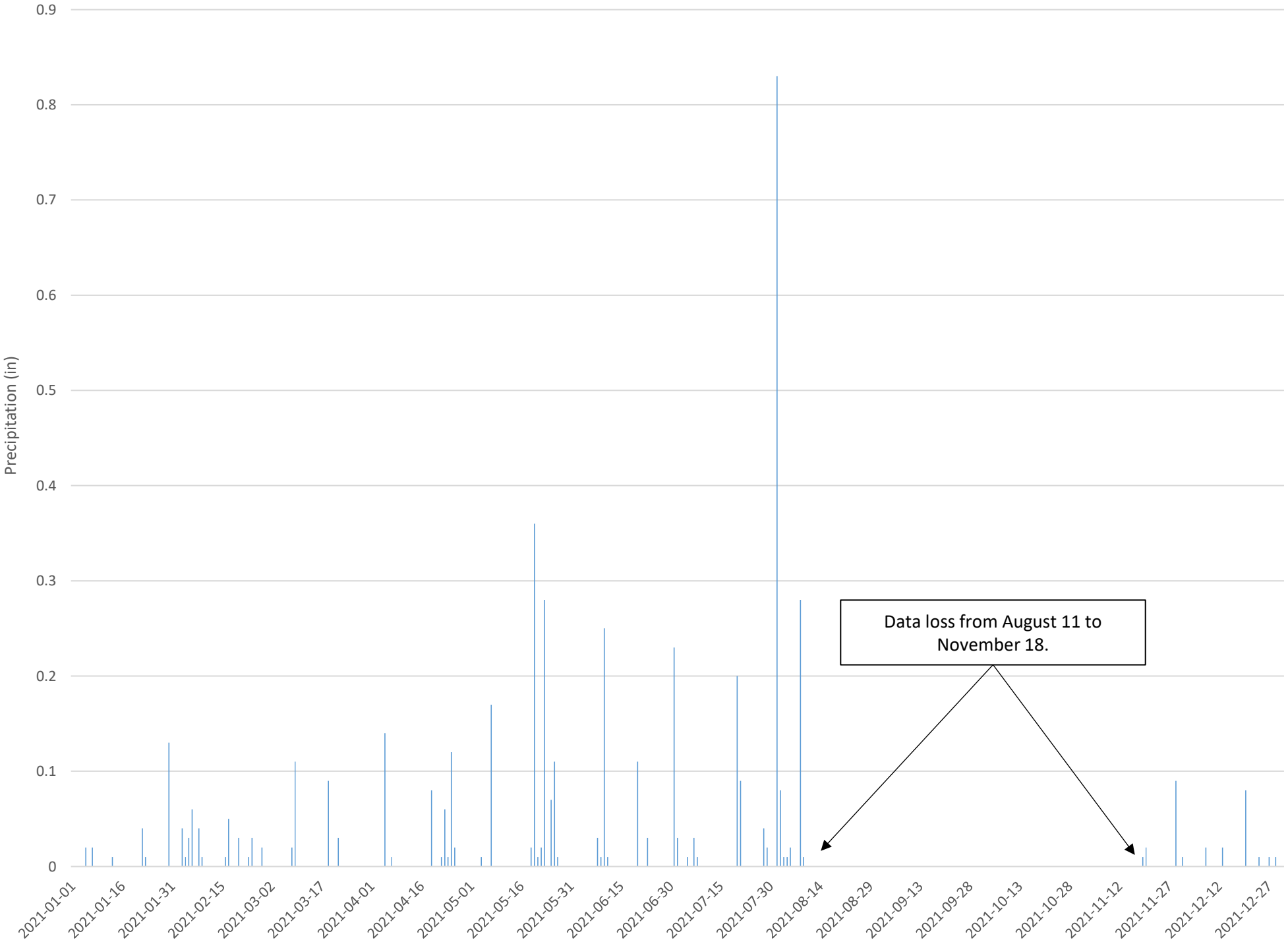


Figure 7e. BPSOU 2021 Climate Station Precipitation - CB-1

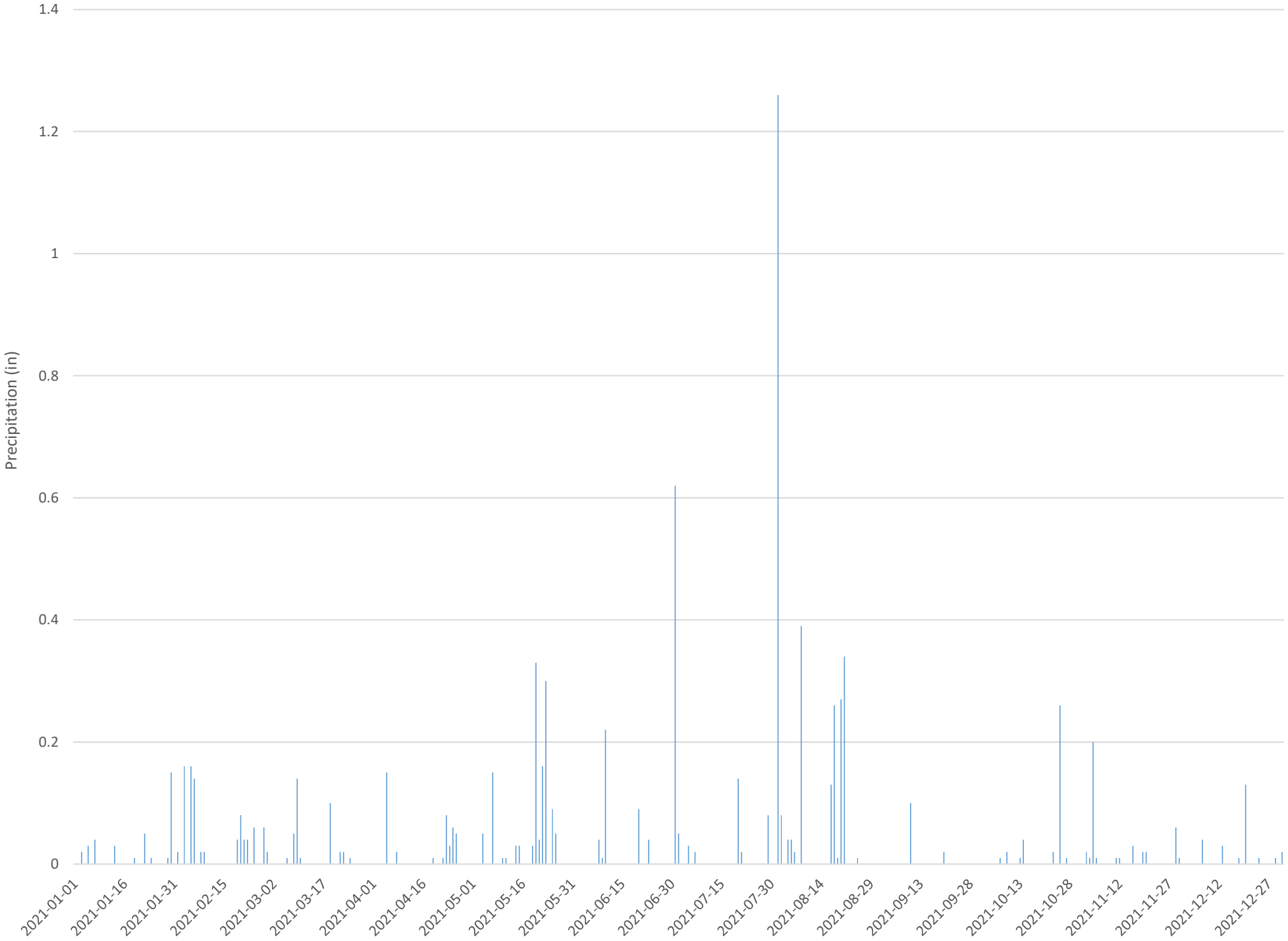


Figure 7f. BPSOU 2021 Climate Station Precipitation - Kelley Mine

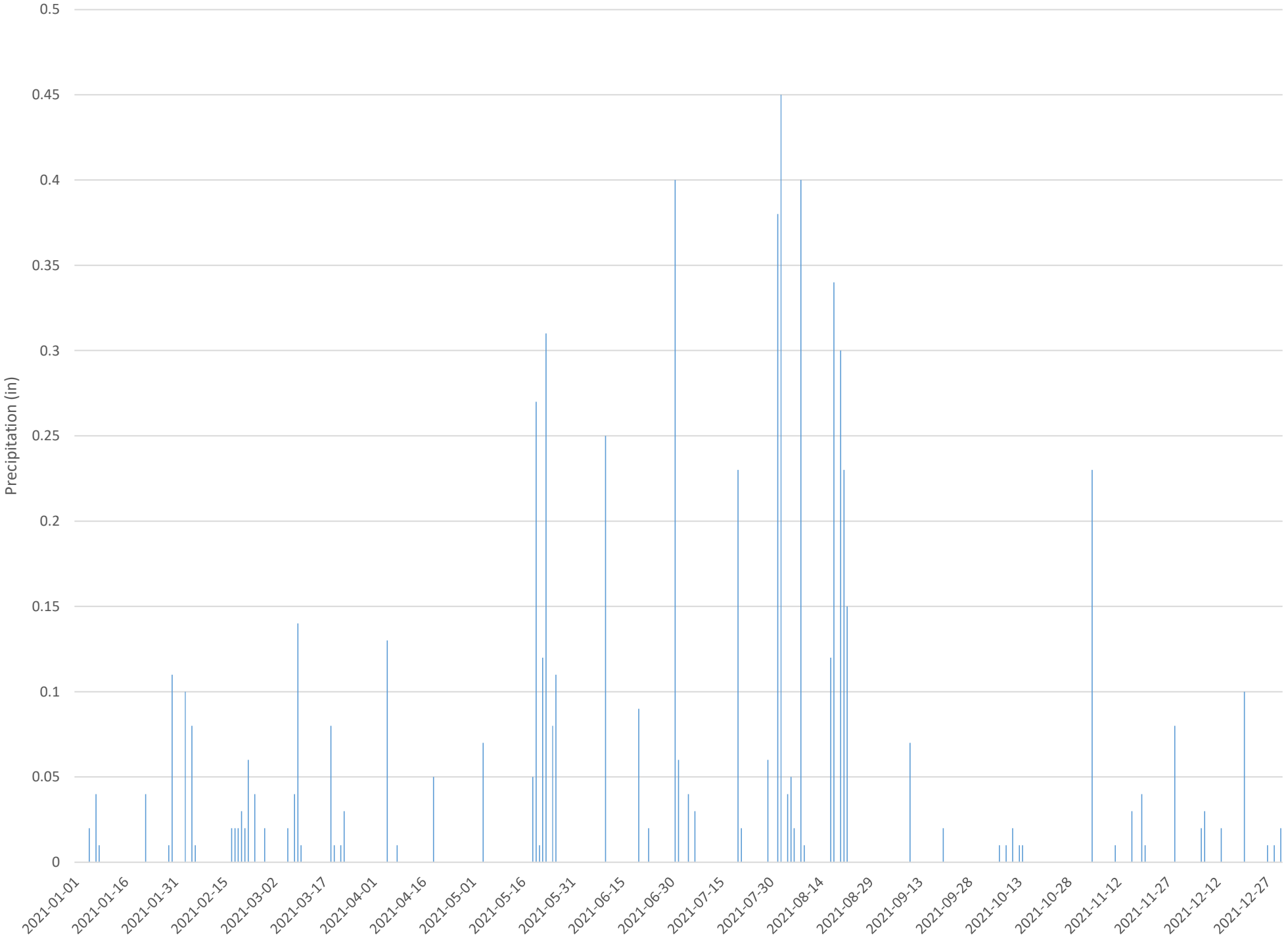
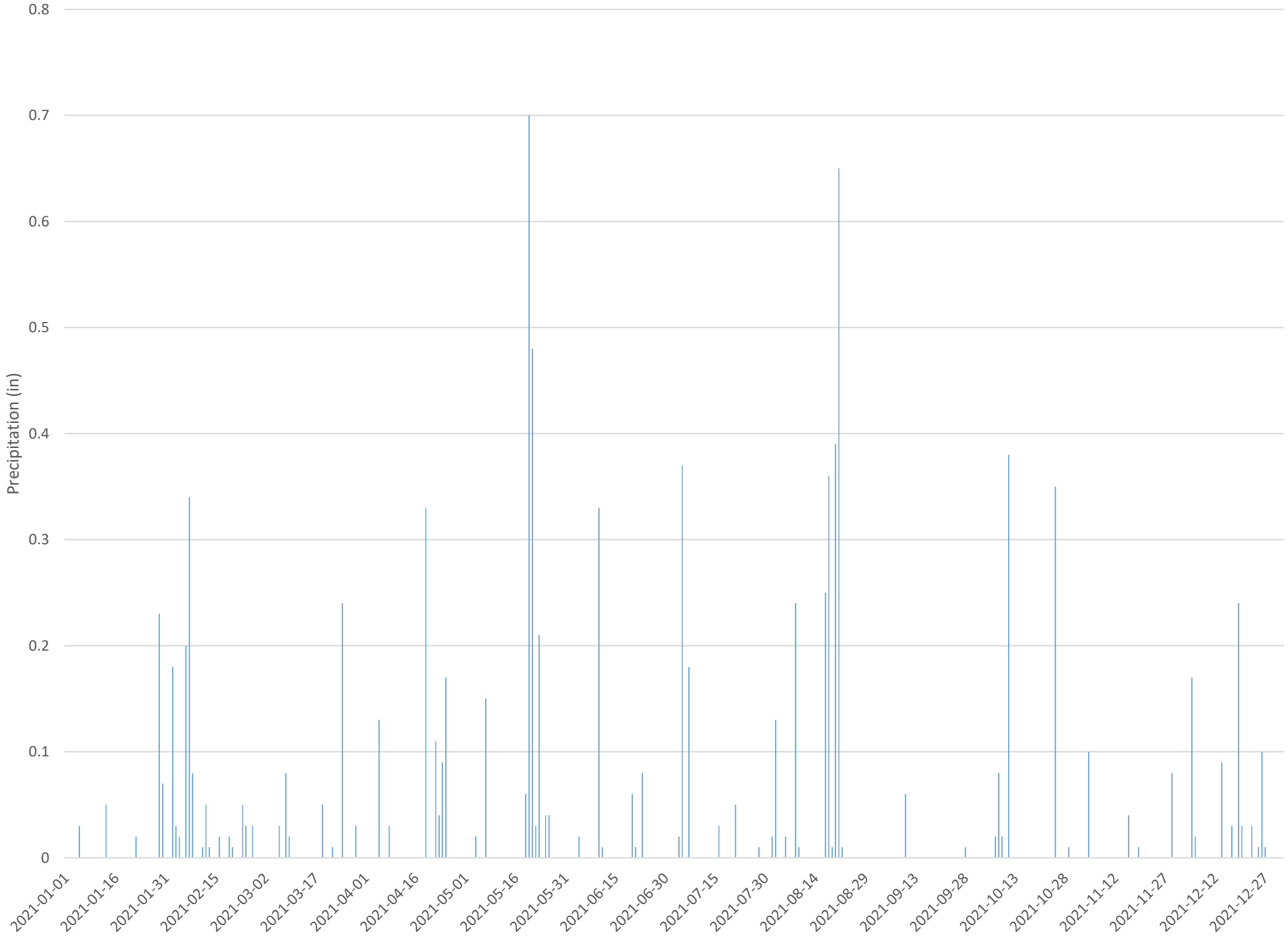


Figure 7g. BPSOU 2021 Climate Station Precipitation - Blacktail Canyon



Appendix A
Normal Flow and Wet Weather Water Data Quality Assessment

Table A2a. BPSOU 2021 Normal Flow Water Quality Results - Total Recoverable
Table A2b. BPSOU 2021 Normal Flow Water Quality Results - Dissolved
Table A2c. BPSOU 2021 Normal Flow Water Quality Results - General Chemistry
Table A2d. BPSOU 2021 Normal Flow Water Quality Results - Field

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable
Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved
Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry
Table A3d. BPSOU 2021 Wet Weather Water Quality Results - Field

Table A4. Definitions of Data Flags, Data Qualifiers and Status Assessments

Table A5a. BPSOU 2021 Normal Flow Data Quality Assessment - Field Duplicates
Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times
Table A5c. BPSOU 2021 Normal Flow Data Quality Assessment – Blanks
Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates
Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times
Table A6c. BPSOU 2021 Wet Weather Data Quality Assessment – Blanks
Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

Butte Priority Soils Operable Unit (BPSOU)
Silver Bow Creek/Butte Area NPL Site

Appendix A: Data Quality Assessment
Draft 2021 Site-Wide Surface Water Normal Flow and Wet Weather Data

Atlantic Richfield

April 2022

TABLE OF CONTENTS

Page

1.0 Introduction 1

2.0 Data Quality Assurance/Quality Control 3
2.1 Field Quality Control 3
2.2 Laboratory Quality Control 3

3.0 Data Quality Assessment 4
3.1 Level A/B 4
3.2 Precision 5
3.2.1 Laboratory and Field Duplicates 5
3.3 Accuracy 6
3.3.1 Sample Preservation and Holding Time 6
3.3.2 Blanks 7
3.3.3 Matrix Spike and Matrix Spike Duplicate 9
3.3.4 Laboratory Control Sample and Laboratory Control Sample Duplicate 10
3.4 Representativeness 10
3.5 Completeness 11
3.6 Comparability 12
3.7 Sensitivity 12
3.8 Data Usability 12

4.0 Data Assessment Summary 13

5.0 References 14

LIST OF TABLES

Table A1 – CRFSSI and TREC Standard Operation Procedures for Surface Water Sampling 2
Table A2a-Ac – BPSOU 2021 Normal Flow Water Quality Results (see Tables Section) 4
Table A3a-Ac – BPSOU 2021 Wet Weather Water Quality Results (see Tables Section) 4
Table A4 – Definitions of Data Flags, Data Qualifiers and Status Assessments (see Table Section) 4
Table A5a-Ad – BPSOU 2021 Normal Flow Data Quality Assessment (see Tables Section) 4
Table A6a-Ad – BPSOU 2021 Wet Weather Flow Data Quality Assessment (see Tables Section) 4
Table A7 – Quantity of Individual Analyses Flagged for Laboratory and Field Precision ... 6
Table A8 – Quantity of Individual Analyses Flagged for Holding Time Exceedances 7
Table A9 – Quantity of Individual Analyses Flagged for Improper Preservation 7
Table A10 – Blank Assessment Guidelines 8
Table A11 – Quantity of Individual Analyses Flagged for Field Blank Detections 9
Table A12 – Quantity of Individual Analyses Flagged for Method Blank Detections 9
Table A13 – Quantity of Individual Analyses Flagged for MS/MSD Recovery 10
Table A14 – Quantity of Individual Analyses Flagged for LCS/LCSD Recovery 10
Table A15 – Quality Status for NF and WW Analyses 13

LIST OF ATTACHMENTS

Attachment A: Analytical and Field Data Validation Checklists
Attachment B: Level A/B Screening Checklists

ABBREVIATIONS AND ACRONYMS

ARCO	Atlantic Richfield Company
BMP	Best Management Practices
BPSOU	Butte Priority Soils Operable Unit
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CFRSSI	Clark Fork River Superfund Site Investigation
DM/DVP	Data Management/Data Validation Plan
DQA	Data Quality Assessment
DQO	Data Quality Objectives
DV	Data Validation
EPA	Environmental Protection Agency
FB	Field Blank
FD	Field Duplicate
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IS	Internal Standards
LAP	Laboratory Analytical Protocol
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MDL	Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
MTDEQ	Montana Department of Environmental Quality
NF	Normal Flow
PARCCS	Precision, Accuracy, Representativeness, Completeness, Comparability, and Sensitivity
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference
SDG	Sample Delivery Group
SOP	Standard Operating Procedure
SRM	Standard Reference Materials
SW	Surface water
TDS	Total Dissolved Solids
TKN	Total Kjeldahl Nitrogen
TSS	Total Suspended Solids
WW	Wet Weather

1.0 INTRODUCTION

The Butte Priority Soils Operable Unit (BPSOU) Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan 2020 and 2021 Monitoring Period (QAPP) (Atlantic Richfield, 2020) states that data must meet certain criteria to achieve the Data Quality Objectives (DQOs) for BPSOU surface water monitoring. The DQOs of the collection effort are that any data collected during the interim monitoring period before the Compliance Standard Determination Period must be of sufficient quality to:

- Evaluate compliance with Performance Standards at compliance monitoring stations SS-06G and SS-07; and
- Evaluate performance of the remedy, in its various stages of implementation.

Data collected will also be used to:

- Maintain and/or assist in determining the stage-discharge ratings from base flow sampling; and
- Identify sources of data gaps (e.g., sampling locations, techniques, and frequency) so future revisions of the QAPP will provide data of sufficient quality and quantity to meet the Environmental Protection Agency's (EPA) long-term remedial objectives.

Data quality assurance/quality control (QA/QC) is performed to ensure overall quality for the data to be used in decisions regarding identification of source areas and implementation of best management practices (BMPs).

To ensure data collected are of the quality required, surface water monitoring activities are performed in accordance with the following Clark Fork River Superfund Site Investigations (CFRSSI) regional control documents listed in the QAPP.

- CFRSSI Laboratory Analytical Protocol (LAP) (ARCO, 1992a);
- CFRSSI Data Management/Data Validation Plan (DM/DVP) Addendum (ARCO, 2000a);
- CFRSSI Standard Operating Procedures (SOP) (ARCO, 1992c); and
- CFRSSI Pilot Data Summary Report for Organic and Inorganic Data Addendum (ARCO, 2000b).

The regional control documents have been approved by EPA and are used to guide the collection, reduction, quality determination and reporting of data during BPSOU surface water monitoring. Data validation and reporting procedures for all data collected by TREC throughout 2021 are outlined in TREC's Data Validation Guidelines for Inorganic Chemistry (TREC, 2021). This is a dynamic document incorporating CFRSSI regional control documents (as listed above), and EPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA, 2020). Montana Department of Environmental Quality (MTDEQ) Data Validation Guidelines for Evaluating Analytical Data (MTDEQ, 2010) is used as a supplement to CFRSSI guidelines to aid the data reviewer in determining data usability.

Normal flow (NF) and wet weather (WW) surface water sample collection, including sample handling, preservation, custody, field quality control samples, documentation, and other associated activities were completed in compliance with the CFRSSI and TREC standard operating

procedures (SOPs) listed in Table A1 below. Many of the CFRSSI SOPs have been modified to reflect technological changes since they were adopted in 1992. Field instruments were calibrated in accordance with manufacturer instructions and in accordance with TREC SOPs.

Table A1 – CRFSSI and TREC Standard Operation Procedures for Surface Water Sampling

Reference Number	Title	Originating Organization
G-4	Field Logbook/Photographs	ARCO
G-5	Sample Packaging and Shipping	ARCO
G-6	Field Quality Control Samples	ARCO
G-7	Sample Custody	ARCO
SOP-H-01	Water Sampling Equipment Decontamination	TREC, Inc.
SOP-H-05	Calibrate YSI Professional Plus Multi-Meter	TREC, Inc.
SOP-SW-01	Surface Water Sampling	TREC, Inc.
SOP-SW-02	Flow Measurements in Wadable Streams	TREC, Inc.
SOP-SW-06	Read Staff Gauge	TREC, Inc.
SOP-SW-07	Change ISCO Batteries	TREC, Inc.
SOP-SW-08	Automatic and Mechanical Sampler Setup	TREC, Inc.
SOP-SW-09	Collect Sample from D-TEC Sampler	TREC, Inc.
SOP-SW-10	Collect Sample from ISCO Sampler	TREC, Inc.
SOP-SW-11	D-TEC Sample Preparation	TREC, Inc.
SOP-SW-12	Surface Water Wet Weather Sample Preparation	TREC, Inc.
SOP-SW-20	Wet Weather Trigger Criteria	TREC, Inc.
SOP-SW-21	Stage-Discharge Curve Creation	TREC, Inc.

Normal flow sample delivery groups (SDGs) received from the laboratory and dates on which the samples were collected are listed below:

- 10545858: 1/21/21
- 10550036: 2/22/21
- 10551370: 3/16/21
- 10555588: 4/13/21
- 10561813: 5/19/21
- 10564925: 6/9/21
- 10569157: 7/8/21
- 10573218: 8/4/21
- 10577494: 9/1/21
- 10584279: 10/18/21
- 10585797: 11/1/21
- 10590953: 12/8/21

Wet weather SDGs received from the laboratory and dates on which the samples were collected are listed below:

- 10562380: 5/23/21
- 10562853: 5/26/21
- 10565256: 6/10/21
- 10568665: 7/1/21
- 10572927: 8/1/21
- 10574117: 8/8/21
- 10575368: 8/18/21
- 10576060: 8/21/21

2.0 DATA QUALITY ASSURANCE/QUALITY CONTROL

QA/QC incorporates field and laboratory procedures which determine the error introduced into sampling and analyses procedures by personnel and equipment.

2.1 Field Quality Control

Field QC consisted of analysis of duplicate and field blank (FB) samples collected at a frequency of one duplicate and one blank for every 20 natural samples. Natural, duplicate, and blank samples were submitted in single SDGs to the laboratory. Analysis for duplicate and blank samples was identical to requested analysis for the associated natural samples. Inter-laboratory splits and standard reference materials (SRM) were not identified for collection under the QAPP.

2.2 Laboratory Quality Control

Pace Analytical Services (Minneapolis, Minnesota) was contracted to analyze surface water samples. To confirm that laboratory analyses and QA/QC procedures were performed per laboratory contract agreements, data validation was performed on each data package received. Data validation procedures used criteria outlined in the TREC DV Guidelines.

3.0 DATA QUALITY ASSESSMENT

Data quality assessment (DQA) was performed to determine if the DQOs identified in the QAPP were satisfied. The DQA process is outlined in EPA Guidance on Systemic Planning Using the Data Quality Objectives Process (EPA, 2006).

Laboratory analyses and QA/QC procedures were validated, and qualifiers were applied as appropriate. To review data for completeness and to assign Level A/B review status, field logbook documentation, field forms, and sample chain of custody forms were reviewed. The sampling team was also available for questioning when clarification was needed. Data precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) were reviewed, and qualifiers were applied to data where necessary. Based on the DQA process, data were assigned to one of three data utilization categories: enforcement quality, screening quality, and rejected (unusable) data. Enforcement quality (unrestricted use) data result from, and were supported by, rigorous sampling and analysis protocols. Screening quality data did not meet applicable sampling or analytical QA/QC and/or documentation requirements. Unusable data may result from inadequate sampling, analysis, and/or documentation procedures. Data validation checklists are provided as Attachment A to this appendix.

Sample results for NF are presented in

Table **A2**, and sample results for WW are presented in Table A3. These tables present total recoverable metals results, dissolved metals results, and general chemistry results.

Data quality assessment results for NF are presented in Table A5, and data quality assessment results for WW are presented in Table A6. These tables present field duplicate results, hold times, field blank results, and laboratory quality control sample results.

Table A2a-Ac – BPSOU 2021 Normal Flow Water Quality Results (see Tables Section)

Table A3a-Ac – BPSOU 2021 Wet Weather Water Quality Results (see Tables Section)

Table A4 – Definitions of Data Flags, Data Qualifiers and Status Assessments (see Table Section)

Table A5a-Ad – BPSOU 2021 Normal Flow Data Quality Assessment (see Tables Section)

Table A6a-Ad – BPSOU 2021 Wet Weather Flow Data Quality Assessment (see Tables Section)

3.1 Level A/B

Level A/B review was applied to sample collection and documentation records, ensuring CFRSSI and TREC SOPs were followed. The data were assessed using the screening checklist provided in the CFRSSI Pilot Data Summary Report Addendum (ARCO, 2000b). Completed Level A/B screening checklists are provided as Attachment B to this appendix. Data utilization categories

were then assigned based on completed data validation reports and Level A/B assessment. 100% of NF and WW samples met Level B criteria.

3.2 Precision

Precision is the level of agreement among repeated measurements of the same characteristic. There are two general forms of uncertainty. The first is the random error component of the data collection process. The second is inherent stochastic variability, which cannot be eliminated but can be described.

Field precision is assessed by collecting and analyzing field duplicate samples, while laboratory precision is assessed by laboratory duplicate samples. Precision is evaluated by calculating variance between the samples. Variance for both laboratory and field duplicates was calculated as relative percent difference (RPD). For analytical results ≥5X the reporting limit (RL), precision is assessed by the RPD between the natural and duplicate sample results. Acceptable precision for field duplicates is RPDs ≤ 20%, while RPD criteria for laboratory precision varies for differing analyses. Table A5d and Table A6d include laboratory %RPD limits. For analytical results <5X the RL, acceptable precision is a difference between the natural and duplicate sample result (delta) ≤ the RL.

3.2.1 Laboratory and Field Duplicates

Laboratory analytical precision was evaluated by analyzing laboratory duplicate samples (LDS), laboratory control sample duplicates (LCSD), and matrix spike/matrix spike duplicate (MS/MSD) samples, and then calculating the RPD for corresponding results. In each case where acceptable laboratory precision was not met, associated sample results were qualified, assigned a validation code of "RPD" (see Appendix A tables), and natural samples were assigned screening status. Table A7 summarizes analyses qualified for laboratory precision. Note that Table A7, and all summary tables in this appendix, contain counts only for natural samples. Also note that several data points received more than one validation code; thus, these data points may be counted in several QC sample summary tables. Eight (0.3% of analyses) NF natural sample results (and 1 field duplicate result) were qualified for laboratory precision. Affected analyses were total Kjeldahl nitrogen (TKN) and total dissolved solids (TDS). 137 WW natural sample results (1.5%) and 6 QC sample results were qualified for laboratory precision. Affected analyses were total aluminum, total iron, TDS, and total suspended solids (TSS).

Normal flow field duplicate results as well as corresponding RPD values are presented in in Table A5a. Field duplicate RPD results were within the required acceptance criteria for 97% of normal flow duplicate sample sets. Thirteen NF field duplicate results did not meet precision criteria, resulting in 66 natural sample results (and 13 field duplicate results) being qualified as estimated, assessed as screening quality, and assigned an "FD" data validation code. Affected analyses were dissolved and total copper, total lead, total mercury, total phosphorous, TDS, TKN and TSS.

Wet weather field duplicate results as well as corresponding RPD values are presented in Table A6a-d. Field duplicate precision was within the required acceptance criteria for 96% of WW duplicate sample sets. Twenty WW field duplicate results did not meet the acceptable precision criteria; thus, 221 associated natural sample WW results (and 20 field duplicate results) were qualified as estimated, assessed as screening quality, and assigned an "FD" data validation code. Affected analyses were total aluminum, total arsenic, total copper, total iron, total phosphorous,

total lead, TDS, TKN, TSS, and total zinc. Table A7 summarizes qualifications based on laboratory and field precision.

Table A7 – Quantity of Individual Analyses Flagged for Laboratory and Field Precision

Monitoring Type	# RPD	# FD	Total	% RPD	%FD
Normal Flow	8	66	2864	0.3	2.3
Wet Weather	137	221	8896	1.5	2.5

It should be noted that NF sample results from SDG 10585797, QC batch 783578, MS 4172244 and MSD 4172245 spike levels differed, so a laboratory review was requested. The laboratory found no errors in preparation, analysis, or reporting of parent sample 10585797001 or MS/MSD samples 4172244/4172245 for total phosphorus. The MSD was prepared using only 40 mL of parent sample due to limited sample volume being available. This equated to a 1.25x dilution factor resulting in the higher spike concentration on the MSD than on the MS, which was prepared using 50 mL of parent sample. Since the MS and MSD had differing concentrations of parent sample, this was not a true laboratory duplicate and the RPD calculation is irrelevant. Thus, no qualifications were made based on the 23% RPD of these MS and MSD results.

3.3 Accuracy

Accuracy is the degree of difference between the measured or calculated value and the true value. It is a measure of the bias or systematic error of the entire data collection process. The QAPP does not require submittal of blind SRM samples, thus field accuracy was evaluated by use of FB samples only. Laboratory accuracy was based on analysis of method blanks (MB), matrix spike and matrix spike duplicate (MS/MSD) samples, and/or laboratory control samples and laboratory control sample duplicates (LCS/LCSD), as appropriate to the analytical method. Laboratory accuracy is also assessed on results of initial calibration verifications (ICV), continuing calibration verifications (CCV), and internal standards (IS), as applicable to the analytical method. Although ICV, CCV, and IS results are completed for all applicable analyses, their results are reported only in Limited Plus and Full data packages. All NF and WW surface water data packages were Limited data packages; however, the project narrative stated there were no problems with these laboratory calibration samples.

Proper sample handling, including correct preservation and analysis within method holding times, also affects accuracy.

3.3.1 Sample Preservation and Holding Time

Data validation included reviewing the laboratory deliverables to ensure all samples were properly preserved and analyzed within the method-specific technical holding time. Table A8 summarizes holding time qualifications for NF and WW natural sample analyses. Nearly all (99.9%) of NF analyses were completed within the method holding time, with 1 NF natural sample analyses exceeding holding time, resulting in that data point being rejected. The rejected data point was the sulfate result for SWBF0133-090121. The original sulfate analysis for this sample was on 9/16/21. The reported sulfate result for the 9/16/21 analysis was 29 mg/L, which is not comparable to

historical results or upstream samples. Re-analysis was requested on 11/29/21 when a data review caught the irregularity. Re-analysis yielded a result of 690 mg/L; thus, it is suspected that a dilution error was made during the original analysis. Although the original analysis was within holding time, it would have been rejected based on comparability. Ultimately, the re-analysis result was rejected for exceeding holding time by more than 2X the holding time. No WW natural sample analyses were qualified for holding time exceedances. Two QC sample alkalinity analyses exceeding holding time. Note that Table A6b indicates that samples in alkalinity batches 751940 and 751962 were analyzed outside of the 14-day holding time. These results were laboratory qualified H5, which indicates that re-analysis was performed beyond holding time, but the re-analysis confirmed the original within-hold analyses. Since the out-of-hold re-analyses confirmed the original in-hold analyses, a validation qualifier was not applied. Normal flow and wet weather holding times are presented in Table A5b and Table A6b, respectively (see Tables section).

Table A8 – Quantity of Individual Analyses Flagged for Holding Time Exceedances

Monitoring Type	# HT	Total	%HT
Normal Flow	1	2864	0.03
Wet Weather	0	8896	0

As Table A9 shows, 63 NF natural sample results (and 31 QC samples results) were qualified for improper preservation. No WW natural sample results (or QC sample results) were qualified for improper preservation. All of these qualifications resulted from samples arriving at the laboratory above 6 degrees Celsius (°C). For NF the affected analyses were; alkalinity, DOC, ammonia, nitrate + nitrite nitrogen, phosphorous, sulfate, TKN, TDS, and TSS. Associated results were qualified as estimated, assigned screening quality, and given a validation code of "IP".

Table A9 – Quantity of Individual Analyses Flagged for Improper Preservation

Monitoring Type	# IP	Total	%IP
Normal Flow	63	2864	2.2
Wet Weather	0	8896	0

3.3.2 Blanks

Laboratory MBs and FBs were analyzed to assess artifacts introduced during sampling, transport and/or analysis that may affect the accuracy of the data. In addition, initial calibration blanks (ICBs), and continuing calibration blanks (CCBs) are used by the lab to verify that sample concentrations are accurately measured by the analytical instrument throughout the analytical run. Although ICBs and CCBs are completed for all analyses, their results are reported only in Limited Plus and Full data packages. All NF and WW data packages were Limited, but the project narrative did not indicate any problems with laboratory calibration blank samples.

Laboratory and field blanks are assessed according to the rules in Table which is reproduced from the TREC DV Guidelines. Because MDLs are calculated statistically, results within one standard deviation of the MDL should be considered non-detects. Laboratory data packages do not include the standard deviations derived from MDL studies, thus an Agency approved alternative approach is to consider detections ≤ 1.5X MDL as being within acceptance criteria.

Table A10 – Blank Assessment Guidelines

Lab Blank Result	Sample Results	Action for Samples
≥ MDL, but ≤ 1.5x MDL	Non-detect (< MDL)	No action
	> MDL, but ≤ RL	No action
	> RL	No action
> 1.5x MDL	Non-detect (< MDL)	No action
	≥ MDL, but ≤ RL	Qualify results as estimated non-detect (UJ)
	> RL, but ≤ 10x blank	Qualify results as estimated high (J+)
	>10x blank value	No action
> RL	See action above for 1.5x MDL value. If any sample results are > MDL and < 10x the blank value, note in the Data Validation Summary that the laboratory failed to re-digest (if applicable) and reanalyze the affected samples. Reanalysis is not required for sample results < MDL or > 10X the blank detection.	
≤ (-RL)	Non-detect (< MDL)	Qualify results as estimated (UJ)
	Detect <10x RL	Qualify results as estimated low (J-)

Professional judgement was used in assigning data validation codes in cases that both the FB and MB had detections >1.5x the MDL. This judgement was based on the magnitude of the FB detection compared to the magnitude of the MB detection.

3.3.2.1 Field Blanks

Field blanks were analyzed to assess artifacts introduced during sampling and transport that may affect the accuracy of the data. Field blanks were analyzed for every 20 samples collected, or once per sampling event, whichever was more frequent.

Table A5c lists results for all NF FBs. Acceptable results (≤ 1.5X the MDL) were obtained for 98% of NF FB analyses. After assessing associated results according to the rules in Table A10, 118 natural sample results (and 19 field duplicate results) were qualified for FB detections. These results were qualified as estimated non-detect or estimated high, assigned an "FB" data validation code, and natural sample results were given screening quality. Affected analyses were dissolved aluminum, cadmium, and silver, dissolved and total copper, iron, and lead, and DOC. Table A11Table summarizes FB qualifications.

Table lists results for all WW FBs. Acceptable results (≤ 1.5X the MDL) were obtained for 92.5% of WW FB analyses. After assessing associated results according to the rules in Table A10, 118 natural sample results (and 5 field duplicate results) were qualified for FB detections. These results were qualified as estimated non-detect or estimated high, assigned an "FB" data validation code, and natural sample results were given screening quality. Affected results were dissolved copper, DOC, total phosphorous, dissolved and total lead, sulfate, and ammonia. Table A11 summarizes NF and WW FB qualifications.

Table A11 – Quantity of Individual Analyses Flagged for Field Blank Detections

Monitoring Type	# FB	Total	%FB
Normal Flow	118	2864	4.1
Wet Weather	118	8896	1.3

3.3.2.2 Method Blanks

Method blanks were analyzed for every analytical batch of 20 or fewer samples. The method blank is laboratory DI water which has gone through the applicable sample preparation and analysis procedure.

Acceptable MB results (≤ 1.5X the MDL) were obtained for 98% of NF and 99% of WW laboratory MB samples. NF MB results can be found in Table A5d, while WW MB results can be found in Table . After assessing MB detections in accordance with the rules in Table A10, MB detections accounted for 23 NF natural samples (6 QC sample results) qualifications Affected results were DOC, dissolved cadmium, dissolved lead, and dissolved silver. MB detections accounted for 5 WW natural samples (3 QC sample results). Affected results were all total cadmium. Results were qualified as estimated non-detect. These results were assigned an "MB" data validation code and given screening quality. Table A12 summarizes NF and WW MB qualifications.

Table A12 – Quantity of Individual Analyses Flagged for Method Blank Detections

Monitoring Type	# MB	Total	%MB
Normal Flow	23	2864	0.8
Wet Weather	5	8896	0.06

3.3.3 Matrix Spike and Matrix Spike Duplicate

Laboratory MS/MSD results and recoveries can be found in Table A5d (NF) and Table (WW). Fifty-nine NF natural sample results, along with 12 field duplicate results and one field blank result, were qualified as estimated for MS/MSD recoveries. In the case of the qualified FB result, the FB was used as the parent sample for the MS. Affected analyses were dissolved and total molybdenum, alkalinity, TKN, phosphate, nitrate + nitrite nitrogen, and sulfate. MS/MSD recoveries outside of acceptance criteria or an MS/MSD not being analyzed accounted for 213 WW natural sample (and 9 field duplicate sample) results being qualified as estimated. Affected analyses were total aluminum, arsenic, cadmium, copper, iron, lead, molybdenum, silver, and zinc, dissolved magnesium, DOC, nitrate + nitrite nitrogen, TKN, and sulfate. The qualified NF and WW results were coded "MS" and natural sample results were given screening quality. Seven WW

natural sample silver results were rejected for not meeting MS/MSD criteria. Table 3 summarizes qualification based on MS/MSD recoveries.

Table A13 – Quantity of Individual Analyses Flagged for MS/MSD Recovery

Monitoring Type	# MS	Total	%MS
Normal Flow	59	2864	2.1
Wet Weather	213	8896	2.4

3.3.4 Laboratory Control Sample and Laboratory Control Sample Duplicate

Laboratory control samples are required for all analyses. Laboratory control sample duplicates are required for sulfate analysis by ASTMD516-90 and alkalinity analysis by SM2540C. LCS/LCSD were analyzed for every batch of 20 or fewer samples as appropriate to the analysis. The LCS is DI water spiked with known concentrations of all target analytes. The LCSD is a duplicate sample of the LCS.

All NF LCSD results were within acceptance criteria; but one NF dissolved silver LCS recovery was high (QC batch 782363 in SDG 10585797). All associated silver results were non-detect; thus, no qualifications resulted based on LCS/LCSD recoveries. Two WW LCS recoveries did not meet acceptance criteria, and these were for alkalinity and dissolved silver. The silver LCS recovery for QC batch 4093350 in SDG 10576060 was high and all associated silver results were non-detect. Therefore, no qualification resulted based on the silver LCS recovery. Four WW natural sample alkalinity results (and 1 field duplicate result) were qualified as estimated for LCS recovery. Table 4 summarizes qualification based on LCS/LCSD recoveries.

Table A14 – Quantity of Individual Analyses Flagged for LCS/LCSD Recovery

Monitoring Type	# LCS	Total	%LCS
Normal Flow	0	2864	0
Wet Weather	4	8896	0.04

3.4 Representativeness

Data representativeness is defined as the degree to which data accurately and precisely represents a characteristic of a population, environmental conditions, or parameter variations at a sampling point. Representativeness is a qualitative parameter that is most concerned with the proper design of the sampling program. Representativeness of samples shall be achieved through the careful selection of sampling locations and methods. The QAPP incorporates a monitoring network designed to provide samples that are representative of the medium being sampled as well as sufficient samples to meet the project DQOs. Sample representativeness may also be evaluated

using the RPDs for field duplicate results. The collected data is believed to be representative of conditions within the BPSOU NF and WW monitoring networks.

3.5 Completeness

Completeness refers to the amount of usable data produced during a sampling and analysis program. The procedures established in this Data Quality Assessment are designed to ensure, to the extent possible, that data shall be valid and usable. To achieve this objective, every effort was made to collect each required sample and to avoid sample loss. The QAPP completeness goal is 95 percent for each matrix. Those data that are validated and need no qualification (enforcement quality data) or are qualified as estimated data (screening quality data), are considered usable. Rejected data are not considered usable.

Normal Flow analytical completeness is assessed by comparing the number of analyses completed to the number of analyses which should have been completed. During the 2021 monitoring period, normal flow water quality was monitored 12 times at SS-01, SS-01.35, SS-04, SS-05, SS-05A, SS-06A, SS-06G, and SS-07. All anticipated sites were sampled in 2021. A total of 144 samples were collected during this monitoring, 120 of which were primary samples, 12 were duplicates, and 12 were blanks. Target analyses for all normal flow samples included dissolved metals, total metals, alkalinity, nitrate/nitrite, sulfate, TDS, and TSS. Samples collected at SS-01, SS-01.35, SS-06G, and SS-07 were also analyzed for DOC, phosphorus, TKN, and ammonia. Duplicate and blank samples were collected from SS-01 or SS-06G throughout 2021 to ensure the four additional analyses were included in field QC samples. In 2021, NF monitoring produced 2,864 of the 2880 anticipated natural sample data points. Of these, 2,862 were useable. Because the shipment of a cooler was delayed by the courier in February, several samples arrived 12 days into the TDS and TSS 7-day holding time and notice of sample receipt was not received until three days later. These samples were then 8 days past the 7-day into holding time; thus, analysis for these parameters was cancelled. Additionally, a sulfate result from September monitoring was rejected due to not meeting holding time requirements, and an alkalinity result from November monitoring was rejected due to not being comparable to historical data. Thus, analytical completeness for normal flow monitoring was 99.4%. Completeness for normal flow field parameter measurements was 100%.

Given the difficulty in predicting wet weather events, the QAPP does not specify the frequency or number of samples to be collected for wet weather data. Wet Weather monitoring completeness is assessed by comparing the number of analyses that were completed and not rejected, to the number of analyses that should have been completed, based on those samples that were collected. During the 2021 monitoring period, eight wet weather events were sampled at eight stations between May 23 and August 21. A total of 304 wet weather natural samples were analyzed for total metals, dissolved metals, alkalinity, nitrate/nitrite, sulfate, TDS, and TSS. Samples from SS-01, SS-01-P, SS-06G, SS-06G-P, SS-07, and SS-07-P collected in the first storm event of the month were also analyzed for DOC, phosphorus, TKN, and ammonia. A total of 336 samples were collected, 304 of which were primary ISCO samples, 16 were duplicate ISCO samples, and 16 were field blanks. In 2021, wet weather monitoring produced 8,896 natural sample data points. Seven silver sample results from May were rejected due to not meeting matrix spike recovery requirements. Thus, completeness for 2021 wet weather data was 99.9 %.

3.6 Comparability

Consistency in the acquisition, handling, and analysis of samples is necessary for comparing results. Where appropriate, the results of analyses obtained were compared with the results obtained in previous studies. Sample locations and parameters consistent with previous studies and use of standard EPA approved analytical methods were used to ensure comparability of results with other analyses performed in a similar manner within the BPSOU.

One primary sample normal flow alkalinity result (SWBF0179-110121) and one primary sample sulfate result (SWBF0133-090121) were rejected because they were not comparable with historical results, nor results from stream reaches with similar water chemistry. Sample SWBF0133-090121 was re-analyzed for sulfate, and the re-analysis result aligned with historical data and sulfate results for upstream samples monitored on 09/01/21. Although the out-of-hold sulfate result was reported, it was rejected because re-analysis was performed more than 2X past the method holding time. Sample SWBF0179-110121 was re-analyzed for alkalinity and the re-analysis result of 61.8 mg/L (original result of 362 mg/L) aligned with historical data as well as alkalinity results for downstream sites monitored on 11/01/21. The laboratory suspects the original analysis was the incorrect sample. Since re-analysis occurred well past the method holding time, the decision was made not to report the re-analysis result.

3.7 Sensitivity

Sensitivity refers to the capability to quantify an analyte at a given concentration. This parameter is associated with the instrument detection limits, method detection limits, and the project reporting limits. The desired analytical sensitivities are MDLs less than the applicable water quality standards specified in Circular DEQ-7, Montana Numeric Water Quality Standards (May 2017). For analytes which do not have water quality standards, the desired sensitivity is a concentration which will enable the analytical data to be used for geochemical interpretation. All analyses met the desired level of sensitivity.

3.8 Data Usability

Three data utilization categories are applied to primary data points, they are enforcement quality data, screening quality data, and rejected data. Enforcement and screening quality data are considered usable. Rejected data is not usable. Enforcement quality data meet all QA/QC and documentation requirements. Screening quality data do not meet the applicable QA/QC requirements and/or documentation requirements. Rejected data may result from inappropriate sampling, analysis, or documentation procedures. Only enforcement and screening quality data are utilized for evaluation of surface water quality.

A total of 3,628 NF natural and QC sample results were analyzed, with 2,864 of these being natural sample results and 764 being QC sample results. Of these 2,864 natural sample results, 2,548 were enforcement quality, 314 were screening quality, and 2 were rejected.

A total of 9,856 WW natural and QC sample results were analyzed, with 8,896 of these being natural sample results and 960 being QC sample results. Of these 8,896 natural sample results, 8,237 were enforcement quality, 652 were screening quality, and 7 were rejected. Table summarizes NF and WW data useability.

Table A15 – Quality Status for NF and WW Analyses

Monitoring Type	Natural Samples	Enforcement Quality (E)	Screening Quality (S)	%E	%S
Normal Flow	2864	2548	314	89	11
Wet Weather	8896	8237	652	93	7

4.0 DATA ASSESSMENT SUMMARY

The quality of data was evaluated based on laboratory and field QC analyses. Data validation and data assessment were performed by TREC, Inc., located in Butte, Montana, in conformance with TREC's data validation guidelines which align with the CFRSSI DM/DV Plan and National Functional Guidelines for Inorganic Data Review.

Laboratory analyses and QA/QC procedures were validated, and qualifiers were applied as appropriate. To review data for completeness and assign Level A/B review status, field logbook documentation and sample chain of custody forms were reviewed. The sampling team was also available for questioning when clarification was needed. All NF and WW samples collected met Level B status. Precision, accuracy, representativeness, completeness, comparability, and sensitivity of data were reviewed, and qualifiers were applied to data as applicable. Data were also tabulated and identified as being either enforcement quality, screening quality, or rejected. NF and WW analytical results are provided in Table A2 (NF) and Table A3 (WW).

A total of 2,864 NF natural sample results were obtained. Of these, 2,548 were enforcement quality, 314 were screening quality, and 2 were rejected.

A total of 8,896 WW natural sample results were obtained. Of these 8,237 were enforcement quality, 652 were screening quality, and 7 were rejected.

1. The 2,548 (89%) NF and 8,237 (93%) WW natural sample results that meet enforcement quality standards can be categorized as definitive data with unrestricted use. They are supported by rigorous sampling and analyses protocols, as well as Level B documentation.
2. The 314 (11%) NF and 652 (7%) WW natural sample results that meet screening quality standards can be categorized as data whose associated numerical values are estimated or met only Level A requirements.
3. The 2 (0.07%) unusable NF natural samples and 7 (0.08%) unusable WW natural sample results do not meet enforcement or screening quality criteria and should not be used.

Copies of sample chain of custodies, field logs, field quality control checklists, laboratory validation checklists, and Level A/B screening checklists associated with validation of the data presented in this report are provided as attachments to this appendix. Original field logs are maintained at TREC's field office in Butte, Montana.

5.0 REFERENCES

ARCO, 1992a. Clark Fork River Superfund Site Investigations Laboratory Analytical Protocol, April 1992.

ARCO, 1992c. Clark Fork River Superfund Site Investigations Standard Operating Procedures, September 1992.

ARCO, 2000a. Clark Fork River Superfund Site Investigations Data Management/Data Validation Plan Addendum, July 2000.

ARCO, 2000b. Clark Fork River Superfund Site Investigations Pilot Data Report Addendum, July 2000.

Atlantic Richfield, 2020. Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan for 2020 and 2021 Monitoring Period, Atlantic Richfield, 2020.

EPA, 2006. Guidance on Systematic Planning Using the Data Quality Objectives Process, EPA QA/G-4, February, 2006.

EPA, 2020. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020.

MTDEQ, 2010. Montana Department of Environmental Quality Data Validation Guidelines for Evaluating Analytical Data, August 5, 2010.

MTDEQ, 20192017. Circular DEQ-7 Montana Numeric Water Quality Standards, May 2017

TREC, 2021. TREC Data Validation Guidelines for Inorganic Chemistry, July 2021.

Tables

Table A2a. BPSOU 2021 Normal Flow Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	AgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	B	0.000077	0.000077	U			E	0.071	0.0071				E	0.0029	0.00014				E	0.00009	0.00003				E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	B	0.000077	0.000077	U			E	0.081	0.0071				E	0.0029	0.00014				E	0.000087	0.00003				E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	B	0.000077	0.000077	U				0.078	0.0071					0.0028	0.00014					0.000055	0.00003	J			
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U				0.00003	0.00003	U			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	B	0.000077	0.000077	U			E	0.12	0.0071				E	0.0031	0.00014				E	0.000099	0.00003				E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	B	0.000077	0.000077	U			E	0.085	0.0071				E	0.0027	0.00014				E	0.000094	0.00003				E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	B	0.000077	0.000077	U			E	0.094	0.0071				E	0.0025	0.00014				E	0.000053	0.00003	J			E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	B	0.000077	0.000077	U			E	0.083	0.0071				E	0.0022	0.00014				E	0.000035	0.00003	J			E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	B	0.000077	0.000077	U			E	0.16	0.0071				E	0.0019	0.00014				E	0.000041	0.00003	J			E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	B	0.000077	0.000077	U			E	0.075	0.0071				E	0.0015	0.00014				E	0.00003	0.00003	U			E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	B	0.000077	0.000077	U			E	0.083	0.0071				E	0.0026	0.00014				E	0.00013	0.00003				E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	B	0.000077	0.000077	U			E	0.13	0.0071				E	0.003	0.00014				E	0.00014	0.00003				E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	B	0.000077	0.000077	U				0.14	0.0071					0.0031	0.00014					0.00014	0.00003				
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	B	0.000077	0.000077	U				0.0098	0.0071	J				0.00014	0.00014	U				0.00003	0.00003	U			
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	B	0.000077	0.000077	U			E	0.1	0.0071				E	0.0025	0.00014				E	0.000071	0.00003	J			E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	B	0.000077	0.000077	U			E	0.26	0.0071				E	0.0029	0.00014				E	0.000086	0.00003				E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	B	0.000077	0.000077	U			E	0.095	0.0071				E	0.0024	0.00014				E	0.000059	0.00003	J			E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	B	0.000077	0.000077	U			E	0.05	0.0071				E	0.0025	0.00014				E	0.00003	0.00003	U			E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	B	0.000077	0.000077	U			E	0.047	0.0071				E	0.0023	0.00014				E	0.00003	0.00003	U			E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	B	0.000077	0.000077	U			E	2	0.0071				E	0.004	0.00014				E	0.000096	0.00003				E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	B	0.000077	0.000077	U			E	0.14	0.0071				E	0.0042	0.00014				E	0.00009	0.00003				E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	B	0.000077	0.000077	U			E	0.15	0.0071				E	0.0045	0.00014				E	0.000035	0.00003	J			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	B	0.000077	0.000077	U			E	0.14	0.0071				E	0.0043	0.00014				E	0.00003	0.00003	U			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	B	0.000077	0.000077	U			E	0.17	0.0071				E	0.0043	0.00014				E	0.00003	0.00003	U			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	B	0.000077	0.000077	U			E	0.19	0.0071				E	0.0039	0.00014				E	0.00003	0.00003	U			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	B	0.000077	0.000077	U			E	0.2	0.0071				E	0.0054	0.00014				E	0.000077	0.00003	J			E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	B	0.000077	0.000077	U			E	0.06	0.0071				E	0.0039	0.00014				E	0.00003	0.00003	U			E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	B	0.000077	0.000077	U			E	0.071	0.0071				E	0.0037	0.00014				E	0.00003	0.00003	U			E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	B	0.000077	0.000077	U				0.06	0.0071					0.0037	0.00014					0.000045	0.00003	J			
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U				0.00003	0.00003	U			
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	B	0.000077	0.000077	U			E	0.13	0.0071				E	0.0033	0.00014				E	0.000095	0.00003				E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	B	0.000077	0.000077	U			E	0.12	0.0071				E	0.0032	0.00014				E	0.0001	0.00003				E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	B	0.000077	0.000077	U				0.13	0.0071					0.0035	0.00014					0.0001	0.00003				
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U				0.00003	0.00003	U			
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	B	0.000077	0.000077	U			E	0.16	0.0071				E	0.0031	0.00014				E	0.0001	0.00003				E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	B	0.000077	0.000077	U			E	0.16	0.0071				E	0.0028	0.00014				E	0.000086	0.00003				E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	B	0.000077	0.000077	U			E	0.15	0.0071				E	0.0027	0.00014				E	0.000064	0.00003	J			E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	B	0.000077	0.000077	U			E	0.26	0.0071				E	0.0036	0.00014				E	0.000045	0.00003	J			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	B	0.000077	0.000077	U			E	0.12	0.0071				E	0.0026	0.00014				E	0.00003	0.00003	U			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	B	0.000077	0.000077	U			E	0.26	0.0071				E	0.003	0.00014				E	0.00003	0.00003	U			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	B	0.00024	0.000077	J			E	0.063	0.0071	B			E	0.0034	0.00014				E	0.000074	0.00003	J			E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	B	0.000077	0.000077	U			E	0.064	0.0071	B			E	0.0039	0.00014				E	0.0001	0.00003				E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	B	0.00008	0.000077	J				0.063	0.0071	B				0.0039	0.00014					0.00009	0.00003				
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U				0.00003	0.00003	U			
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	B	0.000077	0.000077	U			E	0.058	0.0071	B			E	0.0037	0.00014				E	0.000052	0.00003	J			E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	B	0.000077	0.000077	U			E	0.055	0.0071	B			E	0.004	0.00014				E	0.000088	0.00003				E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	B	0.000077	0.000077	U			E	0.053	0.0071	B			E	0.0038	0.00014				E	0.000038	0.00003	J			E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	B	0.000077	0.000077	U			E	0.038	0.0071	B			E	0.0039	0.00014				E	0.00003	0.00003	U			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	B	0.000077	0.000077	U			E	0.037	0.0071	B			E	0.0031	0.00014				E	0.00003	0.00003	U			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	B	0.000077	0.000077	U			E	0.057	0.0071	B			E	0.0031	0.00014				E	0.00003	0.00003	U			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	B	0.00014	0.000077	J			E	0.038	0.0071				E	0.003	0.00014				E	0.000031	0.00003	J			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	B	0.000077	0.000077	U			E	0.031	0.0071				E	0.0027	0.00014				E	0.00003	0.00003	U			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	B	0.000077	0.000077	U				0.031	0.0071					0.0029	0.00014					0.00003	0.00003	U			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U				0.00003	0.00003	U			
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	B	0.000077	0.000077	U			E	0.051	0.0071				E	0.0033	0.00014				E	0.000031	0.00003	J			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	B	0.000077	0.000077	U			E	0.054	0.0071				E	0.0043	0.00014				E	0.000035	0.00003	J			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	B	0.00018	0.000077	J			E	0.059	0.0071				E	0.0034	0.00014				E	0.000036	0.00003	J			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	B	0.000077	0.000077	U			E	0.082	0.0071				E	0.0034	0.00014				E	0.000041	0.00003	J			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	B	0.000077	0.000077	U			E	0.061	0.0071				E	0.0032	0.00014				E	0.00003	0.00003	U			E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	B	0.000077	0.000077	U			E	0.039	0.0071				E	0.0048	0.00014				E	0.00003	0.00003	U			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2a. BPSOU 2021 Normal Flow Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	B	0.0054	0.00043				E	0.16	0.012				E	0.0000045	0.0000045	U			E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	B	0.0063	0.00043				E	0.2	0.012				E	0.0000045	0.0000045	U			E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	B	0.0066	0.00043					0.18	0.012					0.0000045	0.0000045	U			
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	B	0.00043	0.00043	U				0.012	0.012	U				0.0000045	0.0000045	U			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	B	0.012	0.00043				E	0.29	0.012				E	0.000006	0.0000045	J			E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	B	0.0036	0.00043				E	0.17	0.012				E	0.0000045	0.0000045	U			E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	B	0.0031	0.00043				E	0.29	0.012				E	0.0000045	0.0000045	U			E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	B	0.0032	0.00043				E	0.32	0.012				E	0.0000045	0.0000045	U			E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	B	0.0037	0.00043				E	0.41	0.012				E	0.0000045	0.0000045	U			E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	B	0.0018	0.00043				E	0.29	0.012				E	0.0000045	0.0000045	U			E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	B	0.0055	0.00043				E	0.14	0.012				E	0.000011	0.0000045				E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	B	0.0082	0.00043				E	0.24	0.012				E	0.000011	0.0000045				E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	B	0.0084	0.00043					0.23	0.012					0.000011	0.0000045				
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	B	0.00043	0.00043	U				0.012	0.012	U				0.000005	0.0000045	J			
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	B	0.0062	0.00043				E	0.18	0.012				E	0.000008	0.0000045	J			E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	B	0.0047	0.00043				E	0.32	0.012				E	0.0000045	0.0000045	U			E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	B	0.0023	0.00043				E	0.14	0.012				E	0.000005	0.0000045	J			E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	B	0.0024	0.00043				E	0.23	0.012				E	0.000006	0.0000045	J			E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	B	0.0026	0.00043				E	0.17	0.012				E	0.000007	0.0000045	J			E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	B	0.018	0.00043				E	2.3	0.012				E	0.00001	0.0000045				E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	B	0.0083	0.00043				E	0.3	0.012				E	0.000007	0.0000045	J			E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	B	0.0081	0.00043				E	0.31	0.012				E	0.000005	0.0000045	J			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	B	0.0066	0.00043				E	0.33	0.012				E	0.000005	0.0000045	J			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	B	0.0063	0.00043				E	0.38	0.012				E	0.000007	0.0000045	J			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	B	0.0041	0.00043				E	0.31	0.012				E	0.0000045	0.0000045	U			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	B	0.0061	0.00043				E	0.61	0.012				E	0.00001	0.0000045		J	FD	S
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	B	0.0037	0.00043				E	0.31	0.012				E	0.0000045	0.0000045	U	UJ	FD	S
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	B	0.0038	0.00043				E	0.38	0.012				E	0.00013	0.0000045		J	FD	S
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	B	0.0036	0.00043					0.36	0.012					0.0000045	0.0000045	U	UJ	FD	
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	B	0.00043	0.00043	U				0.012	0.012	U				0.0000045	0.0000045	U			
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	B	0.0064	0.00043		J	FD	S	0.34	0.012		J+	FB	S	0.0000045	0.0000045	U	UJ	FD	S
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	B	0.0064	0.00043		J	FD	S	0.33	0.012		J+	FB	S	0.0000045	0.0000045	U	UJ	FD	S
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	B	0.0082	0.00043		J	FD		0.37	0.012		J+	FB		0.000024	0.0000045		J	FD	
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	B	0.00043	0.00043	U				0.038	0.012	J				0.0000045	0.0000045	U			
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	B	0.0073	0.00043		J	FD	S	0.44	0.012				E	0.00003	0.0000045		J	FD	S
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	B	0.0048	0.00043		J	FD	S	0.42	0.012				E	0.000005	0.0000045	J	J	FD	S
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	B	0.0036	0.00043		J	FD	S	0.37	0.012		J+	FB	S	0.000013	0.0000045		J	FD	S
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	B	0.0057	0.00043				E	0.85	0.012				E	0.000008	0.0000045	J			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	B	0.0032	0.00043				E	0.51	0.012				E	0.000005	0.0000045	J			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	B	0.0045	0.00043				E	0.9	0.012				E	0.000014	0.0000045				E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	B	0.0056	0.00043				E	0.17	0.012				E	0.0000047	0.0000047	U			E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	B	0.0056	0.00043				E	0.2	0.012				E	0.0000047	0.0000047	U			E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	B	0.0059	0.00043					0.2	0.012					0.0000047	0.0000047	U			
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	B	0.00043	0.00043	U				0.012	0.012	U				0.0000047	0.0000047	U			
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	B	0.0051	0.00043				E	0.2	0.012				E	0.0000047	0.0000047	U			E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	B	0.0033	0.00043				E	0.22	0.012				E	0.0000047	0.0000047	U			E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	B	0.0029	0.00043				E	0.21	0.012				E	0.0000047	0.0000047	U			E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	B	0.0038	0.00043				E	0.41	0.012				E	0.0000047	0.0000047	U			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	B	0.0038	0.00043				E	0.32	0.012				E	0.0000047	0.0000047	U			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	B	0.0049	0.00043				E	0.42	0.012				E	0.0000047	0.0000047	U			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	B	0.0034	0.00043				E	0.23	0.012				E	0.0000047	0.0000047	U			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	B	0.0044	0.00043				E	0.24	0.012				E	0.0000047	0.0000047	U			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	B	0.0044	0.00043					0.24	0.012					0.0000047	0.0000047	U			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	B	0.00043	0.00043	U				0.015	0.012	J				0.0000047	0.0000047	U			
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	B	0.0055	0.00043				E	0.14	0.012				E	0.0000047	0.0000047	U			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	B	0.0074	0.00043				E	0.17	0.012				E	0.000005	0.0000047	J			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	B	0.0062	0.00043				E	0.19	0.012				E	0.000005	0.0000047	J			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	B	0.0041	0.00043				E	0.21	0.012				E	0.0000047	0.0000047	U			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	B	0.0039	0.00043				E	0.16	0.012				E	0.0000047	0.0000047	U			E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	B	0.0041	0.00043				E	0.31	0.012				E	0.0000047	0.0000047	U			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2a. BPSOU 2021 Normal Flow Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	MoTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	B	0.41	0.000081				E	0.0019	0.000043		J+	FB	S	0.034	0.0023				E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	B	0.46	0.0016				E	0.00077	0.000043		J+	FB	S	0.024	0.0023				E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	B	0.46	0.0016					0.00075	0.000043		J+	FB		0.024	0.0023				
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	B	0.000081	0.000081	U				0.0028	0.000043					0.0023	0.0023	U			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	B	0.49	0.0016				E	0.0013	0.000043		J+	FB	S	0.019	0.0023				E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	B	0.6	0.0016				E	0.0006	0.000043		J+	FB	S	0.011	0.0023				E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	B	0.26	0.000081				E	0.00077	0.000043		J+	FB	S	0.0096	0.0023				E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	B	0.0063	0.000081				E	0.00082	0.000043		J+	FB	S	0.01	0.0023				E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	B	0.0067	0.000081				E	0.00097	0.000043		J+	FB	S	0.011	0.0023				E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	B	0.0049	0.000081				E	0.00026	0.000043		J+	FB	S	0.0031	0.0023	J			E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	B	0.45	0.000081				E	0.00085	0.000043		J	FD	S	0.032	0.0023				E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	B	0.53	0.0016				E	0.0017	0.000043		J	FD	S	0.028	0.0023				E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	B	0.52	0.0016					0.0013	0.000043		J	FD		0.026	0.0023				
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	B	0.000081	0.000081	U				0.000065	0.000043	J				0.0023	0.0023	U			
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	B	0.55	0.0016				E	0.00081	0.000043		J	FD	S	0.015	0.0023				E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	B	0.57	0.0016				E	0.00083	0.000043		J	FD	S	0.018	0.0023				E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	B	0.58	0.0016				E	0.00035	0.000043		J+	FB,FD	S	0.0063	0.0023				E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	B	0.0064	0.000081				E	0.0018	0.000043				E	0.0092	0.0023				E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	B	0.0063	0.000081				E	0.00041	0.000043		J+	FB	S	0.0083	0.0023				E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	B	0.0052	0.000081				E	0.0051	0.000043				E	0.061	0.0023				E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	B	0.4	0.0004				E	0.0013	0.000043				E	0.037	0.0023				E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	B	0.47	0.0004				E	0.0011	0.000043				E	0.026	0.0023				E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	B	0.51	0.0004				E	0.00099	0.000043				E	0.018	0.0023				E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	B	0.51	0.0004				E	0.0011	0.000043				E	0.016	0.0023				E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	B	0.51	0.0004				E	0.00071	0.000043		J+	FB	S	0.011	0.0023				E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	B	0.006	0.000081				E	0.0014	0.000043				E	0.022	0.0023				E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	B	0.0059	0.000081				E	0.00041	0.000043		J+	FB	S	0.0084	0.0023				E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	B	0.005	0.000081				E	0.0003	0.000043		J+	FB	S	0.0051	0.0023				E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	B	0.0049	0.000081					0.00028	0.000043		J+	FB		0.0046	0.0023	J			
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	B	0.000081	0.000081	U				0.000071	0.000043	J				0.0023	0.0023	U			
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	B	0.5	0.000081				E	0.001	0.000043		J	FD	S	0.03	0.0023				E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	B	0.55	0.000081				E	0.00085	0.000043		J	FD	S	0.019	0.0023				E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	B	0.58	0.000081					0.0011	0.000043		J	FD		0.02	0.0023				
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	B	0.00023	0.000081	J				0.000052	0.000043	J				0.0023	0.0023	U			
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	B	0.62	0.000081				E	0.0012	0.000043		J	FD	S	0.017	0.0023				E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	B	0.57	0.000081				E	0.0011	0.000043		J	FD	S	0.012	0.0023				E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	B	0.57	0.000081				E	0.00071	0.000043		J	FD	S	0.009	0.0023				E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	B	0.0063	0.000081				E	0.0016	0.000043				E	0.016	0.0023				E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	B	0.0063	0.000081				E	0.00061	0.000043				E	0.0063	0.0023				E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	B	0.0051	0.000081				E	0.00096	0.000043				E	0.0056	0.0023				E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	B	0.29	0.000081				E	0.00071	0.000043				E	0.034	0.0023				E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	B	0.47	0.0016				E	0.00055	0.000043				E	0.016	0.0023				E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	B	0.49	0.0016					0.00057	0.000043					0.017	0.0023				
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	B	0.000081	0.000081	U				0.000058	0.000043	J				0.0023	0.0023	U			
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	B	0.49	0.0016				E	0.0004	0.000043				E	0.011	0.0023				E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	B	0.49	0.0016				E	0.00038	0.000043				E	0.008	0.0023				E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	B	0.46	0.0016				E	0.00031	0.000043				E	0.005	0.0023	J			E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	B	0.0065	0.000081				E	0.00046	0.000043				E	0.0065	0.0023				E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	B	0.0064	0.000081				E	0.00034	0.000043				E	0.0046	0.0023	J			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	B	0.0053	0.000081				E	0.00036	0.000043				E	0.0025	0.0023	J			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	B	0.0064	0.000081				E	0.00039	0.000043		J+	FB	S	0.0059	0.0023				E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	B	0.0051	0.000081				E	0.00018	0.000043		J+	FB	S	0.0025	0.0023	J			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	B	0.0054	0.000081					0.00018	0.000043		J+	FB		0.0023	0.0023	J			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	B	0.000081	0.000081	U				0.000083	0.000043	J				0.0023	0.0023	U			
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	B	0.25	0.000081				E	0.00054	0.000043		J+	FB	S	0.031	0.0023				E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	B	0.3	0.000081				E	0.00048	0.000043		J+	FB	S	0.0099	0.0023				E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	B	0.46	0.000081				E	0.00056	0.000043		J+	FB	S	0.0075	0.0023				E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	B	0.51	0.000081				E	0.0006	0.000043		J+	FB	S	0.0069	0.0023				E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	B	0.53	0.000081				E	0.00039	0.000043		J+	FB	S	0.0062	0.0023				E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	B	0.0069	0.000081				E	0.00046	0.000043		J+	FB	S	0.0053	0.0023				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2a. BPSOU 2021 Normal Flow Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	AgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	B	0.00016	0.00016	U			E	0.055	0.008				E	0.0027	0.000083				E	0.00007	0.000016	J			E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	B	0.00016	0.00016	U			E	0.029	0.008				E	0.0025	0.000083				E	0.000057	0.000016	J			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	B	0.00016	0.00016	U				0.026	0.008					0.0025	0.000083					0.000053	0.000016	J			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	B	0.00016	0.00016	U			E	0.04	0.008				E	0.0021	0.000083				E	0.000048	0.000016	J			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	B	0.00016	0.00016	U			E	0.028	0.008				E	0.002	0.000083				E	0.000028	0.000016	J			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	B	0.00016	0.00016	U			E	0.027	0.008				E	0.0017	0.000083				E	0.000016	0.000016	U			E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	B	0.00016	0.00016	U			E	0.022	0.008				E	0.0032	0.000083				E	0.000019	0.000016	J			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	B	0.00016	0.00016	U			E	0.024	0.008				E	0.0022	0.000083				E	0.000018	0.000016	J			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	B	0.00016	0.00016	U			E	0.047	0.008				E	0.002	0.000083				E	0.000016	0.000016	U			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	B	0.00016	0.00016	U			E	0.049	0.008				E	0.0027	0.000083				E	0.000084	0.000016				E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	B	0.00016	0.00016	U			E	0.047	0.008				E	0.0029	0.000083				E	0.000099	0.000016				E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	B	0.00016	0.00016	U				0.044	0.008					0.0029	0.000083					0.000096	0.000016				
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	B	0.00016	0.00016	U			E	0.05	0.008				E	0.0028	0.000083				E	0.000083	0.000016				E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	B	0.00016	0.00016	U			E	0.075	0.008				E	0.0032	0.000083				E	0.00003	0.000016	J			E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	B	0.00016	0.00016	U			E	0.043	0.008				E	0.003	0.000083				E	0.000028	0.000016	J			E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	B	0.00016	0.00016	U			E	0.022	0.008				E	0.0034	0.000083				E	0.000019	0.000016	J			E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	B	0.00016	0.00016	U			E	0.028	0.008				E	0.0023	0.000083				E	0.000019	0.000016	J			E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	B	0.00016	0.00016	U			E	0.014	0.008	J			E	0.0023	0.000083				E	0.000016	0.000016	U			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	B	0.00019	0.00016	J			E	0.07	0.008				E	0.0033	0.000083				E	0.000042	0.000016	J			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	B	0.00016	0.00016	U			E	0.074	0.008				E	0.0037	0.000083				E	0.000027	0.000016	J			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	B	0.00016	0.00016	U				0.073	0.008					0.0038	0.000083					0.000019	0.000016	J			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	B	0.00016	0.00016	U			E	0.14	0.008				E	0.0038	0.000083				E	0.000016	0.000016	U			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	B	0.00016	0.00016	U			E	0.074	0.008				E	0.0033	0.000083				E	0.000016	0.000016	U			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	B	0.00016	0.00016	U			E	0.065	0.008				E	0.003	0.000083				E	0.000016	0.000016	U			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	B	0.00016	0.00016	U			E	0.043	0.008				E	0.0029	0.000083				E	0.000017	0.000016	J			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	B	0.00016	0.00016	U			E	0.021	0.008				E	0.0017	0.000083				E	0.000018	0.000016	J			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	B	0.00016	0.00016	U			E	0.021	0.008				E	0.0016	0.000083				E	0.000016	0.000016	U			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	B	0.00016	0.00016	U			E	0.051	0.008				E	0.0032	0.000083				E	0.000092	0.000016				E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	B	0.00016	0.00016	U			E	0.048	0.008				E	0.004	0.000083				E	0.00013	0.000016				E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	B	0.00016	0.00016	U				0.049	0.008					0.0043	0.000083					0.00012	0.000016				
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	B	0.00016	0.00016	U			E	0.073	0.008				E	0.0033	0.000083				E	0.000088	0.000016				E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	B	0.00016	0.00016	U			E	0.065	0.008				E	0.0036	0.000083				E	0.000097	0.000016				E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	B	0.00016	0.00016	U			E	0.065	0.008				E	0.0029	0.000083				E	0.000074	0.000016	J			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	B	0.00016	0.00016	U			E	0.04	0.008				E	0.0025	0.000083				E	0.000026	0.000016	J			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	B	0.00016	0.00016	U			E	0.026	0.008				E	0.0017	0.000083				E	0.000017	0.000016	J			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	B	0.00016	0.00016	U			E	0.018	0.008	J			E	0.0017	0.000083				E	0.000016	0.000016	U			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	B	0.00027	0.00016	J			E	0.072	0.008				E	0.0031	0.000083				E	0.00011	0.000016				E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	B	0.00016	0.00016	U			E	0.082	0.008				E	0.0032	0.000083				E	0.00013	0.000016				E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	B	0.00016	0.00016	U				0.087	0.008					0.0033	0.000083					0.00012	0.000016				
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	B	0.00016	0.00016	U			E	0.098	0.008				E	0.0028	0.000083				E	0.00011	0.000016				E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	B	0.00016	0.00016	U			E	0.098	0.008				E	0.0027	0.000083				E	0.000093	0.000016				E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	B	0.00016	0.00016	U			E	0.11	0.008				E	0.0028	0.000083				E	0.00009	0.000016				E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	B	0.00016	0.00016	U			E	0.097	0.008				E	0.0027	0.000083				E	0.000053	0.000016	J			E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	B	0.00016	0.00016	U			E	0.022	0.008				E	0.0016	0.000083				E	0.000021	0.000016	J			E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	B	0.00016	0.00016	U			E	0.086	0.008				E	0.0017	0.000083				E	0.000016	0.000016	J			E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	B	0.00016	0.00016	U			E	0.1	0.008				E	0.0024	0.000083				E	0.00008	0.000016				E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	B	0.00016	0.00016	U			E	0.11	0.008				E	0.0025	0.000083				E	0.000059	0.000016	J			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	B	0.00016	0.00016	U				0.11	0.008					0.0025	0.000083					0.000053	0.000016	J			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	B	0.00016	0.00016	U			E	0.11	0.008				E	0.0022	0.000083				E	0.000032	0.000016	J			E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	B	0.00016	0.00016	U			E	0.095	0.008				E	0.0021	0.000083				E	0.000023	0.000016	J			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	B	0.00016	0.00016	U			E	0.071	0.008				E	0.0017	0.000083				E	0.000016	0.000016	U			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	B	0.00016	0.00016	U			E	0.23	0.008				E	0.0028	0.000083				E	0.000063	0.000016	J			E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	B	0.00016	0.00016	U			E	0.055	0.008				E	0.0015	0.000083				E	0.000022	0.000016	J			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	B	0.00016	0.00016	U			E	0.043	0.008				E	0.0012	0.000083				E	0.000016	0.000016	U			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2a. BPSOU 2021 Normal Flow Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	B	0.0043	0.0005				E	0.12	0.012				E	0.0000047	0.0000047	U			E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	B	0.004	0.0005				E	0.099	0.012				E	0.0000047	0.0000047	U			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	B	0.0043	0.0005					0.1	0.012					0.0000047	0.0000047	U			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	B	0.0036	0.0005				E	0.12	0.012				E	0.0000047	0.0000047	U			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	B	0.0018	0.0005				E	0.091	0.012				E	0.0000047	0.0000047	U			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	B	0.0018	0.0005				E	0.078	0.012				E	0.0000047	0.0000047	U			E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	B	0.0031	0.0005				E	0.23	0.012				E	0.0000047	0.0000047	U			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	B	0.002	0.0005				E	0.16	0.012				E	0.0000047	0.0000047	U			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	B	0.0028	0.0005				E	0.24	0.012				E	0.0000047	0.0000047	U			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	B	0.0037	0.0005		J	FD	S	0.08	0.012				E	0.0000047	0.0000047	U			E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	B	0.014	0.0005		J	FD	S	0.081	0.012				E	0.0000047	0.0000047	U			E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	B	0.004	0.0005		J	FD		0.093	0.012					0.0000047	0.0000047	U			
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	B	0.0041	0.0005		J	FD	S	0.09	0.012				E	0.0000047	0.0000047	U			E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	B	0.004	0.0005		J	FD	S	0.14	0.012				E	0.0000047	0.0000047	U			E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	B	0.0021	0.0005		J	FD	S	0.077	0.012				E	0.0000047	0.0000047	U			E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	B	0.0028	0.0005				E	0.18	0.012				E	0.0000047	0.0000047	U			E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	B	0.0027	0.0005				E	0.13	0.012				E	0.0000047	0.0000047	U			E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	B	0.0032	0.0005				E	0.15	0.012				E	0.0000047	0.0000047	U			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	B	0.0049	0.0005				E	0.1	0.012				E	0.0000047	0.0000047	U			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	B	0.005	0.0005				E	0.11	0.012				E	0.0000047	0.0000047	U			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	B	0.0053	0.0005					0.11	0.012					0.0000047	0.0000047	U			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	B	0.0067	0.0005				E	0.2	0.012				E	0.0000047	0.0000047	U			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	B	0.0027	0.0005				E	0.11	0.012				E	0.0000047	0.0000047	U			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	B	0.0022	0.0005				E	0.09	0.012				E	0.0000047	0.0000047	U			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	B	0.0025	0.0005				E	0.19	0.012				E	0.0000047	0.0000047	U			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	B	0.0019	0.0005				E	0.086	0.012				E	0.0000047	0.0000047	U			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	B	0.0021	0.0005				E	0.13	0.012				E	0.0000047	0.0000047	U			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	B	0.0046	0.0005				E	0.068	0.012				E	0.0000047	0.0000047	U			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	B	0.0046	0.0005				E	0.071	0.012				E	0.0000047	0.0000047	U			E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	B	0.0048	0.0005					0.075	0.012					0.0000047	0.0000047	U			
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	B	0.0047	0.0005				E	0.11	0.012				E	0.0000047	0.0000047	U			E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	B	0.0027	0.0005				E	0.11	0.012				E	0.0000047	0.0000047	U			E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	B	0.0021	0.0005				E	0.11	0.012				E	0.0000047	0.0000047	U			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	B	0.0022	0.0005				E	0.18	0.012				E	0.0000047	0.0000047	U			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	B	0.0017	0.0005				E	0.095	0.012				E	0.0000047	0.0000047	U			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	B	0.0015	0.0005				E	0.14	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	B	0.0048	0.0005		J+	FB	S	0.11	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	B	0.0047	0.0005		J+	FB	S	0.12	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	B	0.005	0.0005		J+	FB		0.12	0.012					0.0000047	0.0000047	U			
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	B	0.0011	0.0005					0.012	0.012	U				0.0000047	0.0000047	U			
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	B	0.0051	0.0005		J+	FB	S	0.16	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	B	0.0033	0.0005		J+	FB	S	0.17	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	B	0.0032	0.0005		J+	FB	S	0.19	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	B	0.0033	0.0005		J+	FB	S	0.31	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	B	0.0015	0.0005		J+	FB	S	0.087	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	B	0.0018	0.0005		J+	FB	S	0.28	0.012				E	0.0000047	0.0000047	U			E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	B	0.0062	0.0005				E	0.18	0.012				E	0.0000047	0.0000047	U			E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	B	0.0069	0.0005				E	0.19	0.012				E	0.0000047	0.0000047	U			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	B	0.0065	0.0005					0.19	0.012					0.0000047	0.0000047	U			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	B	0.0055	0.0005				E	0.2	0.012				E	0.0000047	0.0000047	U			E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	B	0.0035	0.0005				E	0.19	0.012				E	0.0000047	0.0000047	U			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	B	0.0023	0.0005				E	0.14	0.012				E	0.0000047	0.0000047	U			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	B	0.006	0.0005				E	0.62	0.012				E	0.000006	0.0000047	J			E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	B	0.0025	0.0005				E	0.16	0.012				E	0.0000047	0.0000047	U			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	B	0.0018	0.0005				E	0.19	0.012				E	0.0000047	0.0000047	U			E

Table A2a. BPSOU 2021 Normal Flow Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	MoTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	B	0.28	0.000094	M1	J-	MS	S	0.00091	0.000028				E	0.019	0.002				E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	B	0.26	0.000094		J-	MS	S	0.00054	0.000028				E	0.012	0.002				E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	B	0.28	0.000094		J-	MS		0.00057	0.000028					0.013	0.002				
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	B	0.000094	0.000094	U				0.000031	0.000028	J				0.002	0.002	U			
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	B	0.41	0.000094		J-	MS	S	0.00067	0.000028				E	0.01	0.002				E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	B	0.41	0.000094		J-	MS	S	0.00045	0.000028				E	0.0058	0.002				E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	B	0.41	0.000094		J-	MS	S	0.00029	0.000028				E	0.0041	0.002	J			E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	B	0.0064	0.000094				E	0.00037	0.000028				E	0.0063	0.002				E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	B	0.007	0.000094				E	0.00035	0.000028				E	0.0069	0.002				E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	B	0.0047	0.000094				E	0.00028	0.000028				E	0.0034	0.002	J			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	B	0.32	0.000094	M1	J-	MS	S	0.00087	0.000028				E	0.017	0.002				E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	B	0.39	0.000094		J-	MS	S	0.00074	0.000028		J+	FB	S	0.013	0.002				E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	B	0.38	0.000094		J-	MS		0.00085	0.000028					0.012	0.002				
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	B	0.000094	0.000094	U				0.000084	0.000028	J				0.002	0.002	U			
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	B	0.42	0.000094		J-	MS	S	0.0008	0.000028		J+	FB	S	0.0089	0.002				E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	B	0.38	0.000094		J-	MS	S	0.0014	0.000028				E	0.0095	0.002				E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	B	0.4	0.000094		J-	MS	S	0.00055	0.000028		J+	FB	S	0.0053	0.002				E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	B	0.0065	0.000094				E	0.00031	0.000028		J+	FB	S	0.0041	0.002	J			E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	B	0.0064	0.000094				E	0.0002	0.000028		J+	FB	S	0.0051	0.002				E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	B	0.0048	0.000094				E	0.000075	0.000028	J	UJ	FB	S	0.002	0.002	U			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	B	0.4	0.000094	P6			E	0.0011	0.000028				E	0.041	0.002				E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	B	0.5	0.000094				E	0.001	0.000028				E	0.017	0.002				E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	B	0.49	0.000094					0.001	0.000028					0.017	0.002				
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	B	0.000094	0.000094	U				0.000039	0.000028	J				0.002	0.002	U			
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	B	0.49	0.000094				E	0.002	0.000028				E	0.015	0.002				E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	B	0.46	0.000094				E	0.0009	0.000028				E	0.008	0.002				E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	B	0.47	0.000094				E	0.0005	0.000028				E	0.0056	0.002				E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	B	0.007	0.000094				E	0.00042	0.000028				E	0.0058	0.002				E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	B	0.0061	0.000094				E	0.00013	0.000028				E	0.0055	0.002				E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	B	0.0045	0.000094				E	0.000079	0.000028	J			E	0.002	0.002	U			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	B	0.31	0.000094				E	0.00056	0.000028		J+	FB	S	0.043	0.002				E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	B	0.44	0.000094				E	0.0005	0.000028		J+	FB	S	0.018	0.002				E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	B	0.46	0.00094					0.00051	0.000028		J+	FB		0.02	0.002				
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	B	0.000094	0.000094	U				0.000067	0.000028	J				0.002	0.002	U			
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	B	0.47	0.00094				E	0.00084	0.000028				E	0.012	0.002				E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	B	0.55	0.00094				E	0.00049	0.000028		J+	FB	S	0.0094	0.002				E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	B	0.46	0.00094				E	0.00033	0.000028		J+	FB	S	0.0056	0.002				E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	B	0.0066	0.000094				E	0.00048	0.000028		J+	FB	S	0.0072	0.002				E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	B	0.0065	0.000094				E	0.0002	0.000028		J+	FB	S	0.0052	0.002				E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	B	0.0052	0.000094				E	0.00012	0.000028		J+	FB	S	0.0027	0.002	J			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	B	0.36	0.000094				E	0.00086	0.000028				E	0.032	0.002				E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	B	0.43	0.000094				E	0.00091	0.000028				E	0.017	0.002				E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	B	0.44	0.000094					0.00094	0.000028					0.018	0.002				
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	B	0.000094	0.000094	U				0.00008	0.000028	J				0.002	0.002	U			
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	B	0.47	0.00094				E	0.0013	0.000028				E	0.013	0.002				E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	B	0.47	0.00094				E	0.00079	0.000028		J+	FB	S	0.0098	0.002				E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	B	0.42	0.00094				E	0.00085	0.000028				E	0.0081	0.002				E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	B	0.0067	0.000094				E	0.00086	0.000028				E	0.011	0.002				E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	B	0.0063	0.000094				E	0.00017	0.000028		J+	FB	S	0.0064	0.002				E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	B	0.0048	0.000094				E	0.00027	0.000028		J+	FB	S	0.0031	0.002	J			E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	B	0.31	0.000094	M1	J+	MS	S	0.0014	0.000028				E	0.036	0.002				E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	B	0.36	0.000094		J+	MS	S	0.0014	0.000028				E	0.022	0.002				E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	B	0.36	0.000094		J+	MS		0.0014	0.000028					0.022	0.002				
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	B	0.000094	0.000094	U				0.000041	0.000028	J				0.002	0.002	U			
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	B	0.39	0.000094		J+	MS	S	0.0015	0.000028				E	0.014	0.002	B			E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	B	0.4	0.000094		J+	MS	S	0.00083	0.000028				E	0.01	0.002	B			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	B	0.37	0.000094		J+	MS	S	0.00044	0.000028				E	0.0057	0.002	B			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	B	0.0066	0.000094				E	0.0017	0.000028				E	0.017	0.002	B			E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	B	0.0061	0.000094				E	0.00043	0.000028				E	0.0072	0.002	B			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	B	0.0045	0.000094				E	0.00016	0.000028				E	0.0026	0.002	J,B			E

Table A2b. BPSOU 2021 Normal Flow Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	AgDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	B	0.000077	0.000077	U			E	0.03	0.0071				E	0.0026	0.00014				E	0.000092	0.00003				E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	B	0.000077	0.000077	U			E	0.021	0.0071				E	0.0023	0.00014				E	0.000081	0.00003				E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	B	0.000077	0.000077	U				0.028	0.0071					0.0023	0.00014					0.000082	0.00003				
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U				0.00003	0.00003	U			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	B	0.000077	0.000077	U			E	0.027	0.0071				E	0.0021	0.00014				E	0.000066	0.00003	J			E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	B	0.000077	0.000077	U			E	0.032	0.0071				E	0.0023	0.00014				E	0.000044	0.00003	J			E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	B	0.000077	0.000077	U			E	0.028	0.0071				E	0.0018	0.00014				E	0.00003	0.00003	U			E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0019	0.00014				E	0.00003	0.00003	U			E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	B	0.000077	0.000077	U			E	0.017	0.0071	J			E	0.0015	0.00014				E	0.00003	0.00003	U			E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0012	0.00014				E	0.00003	0.00003	U			E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	B	0.000077	0.000077	U			E	0.0235	0.0071				E	0.0023	0.00014				E	0.00014	0.00003				E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	B	0.000077	0.000077	U			E	0.032	0.0071				E	0.0022	0.00014				E	0.00014	0.00003				E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	B	0.000077	0.000077	U				0.034	0.0071					0.0023	0.00014					0.000096	0.00003				
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	B	0.000082	0.000077	J				0.0071	0.0071	U				0.00014	0.00014	U				0.00003	0.00003	U			
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	B	0.000077	0.000077	U			E	0.041	0.0071				E	0.0022	0.00014				E	0.000085	0.00003				E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	B	0.000077	0.000077	U			E	0.044	0.0071				E	0.002	0.00014				E	0.00011	0.00003				E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	B	0.000077	0.000077	U			E	0.044	0.0071				E	0.0019	0.00014				E	0.00003	0.00003	U			E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0021	0.00014				E	0.00003	0.00003	U			E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0017	0.00014				E	0.00003	0.00003	U			E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0021	0.00014				E	0.000032	0.00003	J			E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	B	0.000077	0.000077	U			E	0.025	0.0071				E	0.0031	0.00014				E	0.000044	0.00003	J			E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	B	0.000077	0.000077	U			E	0.02	0.0071	J			E	0.0033	0.00014				E	0.000033	0.00003	J			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	B	0.000077	0.000077	U			E	0.022	0.0071				E	0.0032	0.00014				E	0.00003	0.00003	U			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	B	0.000077	0.000077	U			E	0.028	0.0071				E	0.0032	0.00014				E	0.00003	0.00003	U			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	B	0.000077	0.000077	U			E	0.027	0.0071				E	0.0029	0.00014				E	0.00003	0.00003	U			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0042	0.00014				E	0.00003	0.00003	U			E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0036	0.00014				E	0.00003	0.00003	U			E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0031	0.00014				E	0.00003	0.00003	U			E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	B	0.000077	0.000077	U				0.0071	0.0071	U				0.0032	0.00014					0.00003	0.00003	U			
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U				0.00003	0.00003	U			
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	B	0.000077	0.000077	U			E	0.025	0.0071		J+	FB	S	0.0024	0.00014				E	0.000093	0.00003				E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	B	0.000077	0.000077	U			E	0.011	0.0071	J	UJ	FB	S	0.0025	0.00014				E	0.000094	0.00003				E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	B	0.000077	0.000077	U				0.012	0.0071	J	UJ	FB		0.0026	0.00014					0.000085	0.00003				
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	B	0.0001	0.000077	J				0.018	0.0071	J				0.00014	0.00014	U				0.00003	0.00003	U			
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	B	0.000077	0.000077	U			E	0.018	0.0071	J	UJ	FB	S	0.0021	0.00014				E	0.000087	0.00003				E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	B	0.000077	0.000077	U			E	0.013	0.0071	J	UJ	FB	S	0.0021	0.00014				E	0.000086	0.00003				E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	B	0.000077	0.000077	U			E	0.013	0.0071	J	UJ	FB	S	0.0019	0.00014				E	0.000045	0.00003	J			E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0021	0.00014				E	0.00003	0.00003	U			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0018	0.00014				E	0.00003	0.00003	U			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0021	0.00014				E	0.00003	0.00003	U			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	B	0.000081	0.000077	J	UJ	FB	S	0.021	0.0071				E	0.0027	0.00014				E	0.00008	0.00003		J+	FB	S
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	B	0.000077	0.000077	U			E	0.027	0.0071				E	0.0029	0.00014				E	0.00012	0.00003		J+	FB	S
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	B	0.000077	0.000077	U				0.017	0.0071	J				0.0028	0.00014					0.000051	0.00003	J	UJ	FB	
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	B	0.00069	0.00038	J,B,D3	UJ	MB		0.0071	0.0071	U				0.00014	0.00014	U				0.00005	0.00003	J			
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	B	0.000077	0.000077	U			E	0.021	0.0071				E	0.0029	0.00014				E	0.000049	0.00003	J	UJ	FB	S
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	B	0.000077	0.000077	U			E	0.022	0.0071				E	0.0029	0.00014				E	0.000037	0.00003	J	UJ	FB	S
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	B	0.000077	0.000077	U			E	0.021	0.0071				E	0.0028	0.00014				E	0.000052	0.00003	J	UJ	FB	S
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0029	0.00014				E	0.00003	0.00003	U			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	B	0.000077	0.000077	U			E	0.0075	0.0071	J			E	0.0024	0.00014				E	0.00003	0.00003	U			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0026	0.00014				E	0.00003	0.00003	U			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0026	0.00014				E	0.00003	0.00003	U			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0024	0.00014				E	0.00003	0.00003	U			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	B	0.000077	0.000077	U				0.0071	0.0071	U				0.0024	0.00014					0.00003	0.00003	U			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U				0.00003	0.00003	U			
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	B	0.000077	0.000077	U			E	0.021	0.0071				E	0.0028	0.00014				E	0.00003	0.00003	U			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	B	0.000077	0.000077	U			E	0.021	0.0071				E	0.0038	0.00014				E	0.00003	0.00003	U			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	B	0.000077	0.000077	U			E	0.024	0.0071				E	0.003	0.00014				E	0.00003	0.00003	U			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	B	0.000077	0.000077	U			E	0.027	0.0071				E	0.0029	0.00014				E	0.00003	0.00003	U			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	B	0.000077	0.000077	U			E	0.032	0.0071				E	0.0029	0.00014				E	0.00003	0.00003	U			E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	B	0.000077	0.000077	U			E	0.0074	0.0071	J			E	0.0043	0.00014				E	0.00003	0.00003	U			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2b. BPSOU 2021 Normal Flow Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	CuDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	HgDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	B	0.0036	0.00043		J+	FB,FD	S	0.012	0.012	U			E	0.0000045	0.0000045	U			E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	B	0.0024	0.00043		J+	FB,FD	S	0.012	0.012	U			E	0.0000045	0.0000045	U			E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	B	0.0035	0.00043		J+	FB,FD		0.012	0.012	U				0.0000045	0.0000045	U			
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	B	0.0046	0.00043					0.012	0.012	U				0.0000045	0.0000045	U			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	B	0.003	0.00043		J+	FB,FD	S	0.028	0.012	J			E	0.0000045	0.0000045	U			E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	B	0.0011	0.00043		J+	FB,FD	S	0.012	0.012	J			E	0.0000045	0.0000045	U			E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	B	0.0029	0.00043		J+	FB,FD	S	0.022	0.012	J			E	0.0000045	0.0000045	U			E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	B	0.00088	0.00043	J	UJ	FB	S	0.047	0.012	J			E	0.0000045	0.0000045	U			E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	B	0.0018	0.00043		J+	FB	S	0.028	0.012	J			E	0.0000045	0.0000045	U			E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	B	0.00082	0.00043	J	UJ	FB	S	0.035	0.012	J			E	0.0000045	0.0000045	U			E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	B	0.0036	0.00043				E	0.0129	0.012	J			E	0.0000045	0.0000045	U			E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	B	0.0018	0.00043				E	0.017	0.012	J			E	0.000012	0.0000045				E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	B	0.0019	0.00043					0.018	0.012	J				0.000005	0.0000045	J			
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	B	0.00043	0.00043	U				0.012	0.012	U				0.0000045	0.0000045	U			
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	B	0.0019	0.00043				E	0.025	0.012	J			E	0.000006	0.0000045	J			E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	B	0.001	0.00043				E	0.023	0.012	J			E	0.000006	0.0000045	J			E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	B	0.00065	0.00043	J			E	0.015	0.012	J			E	0.000007	0.0000045	J			E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	B	0.00086	0.00043	J			E	0.042	0.012	J			E	0.000006	0.0000045	J			E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	B	0.001	0.00043				E	0.021	0.012	J			E	0.000005	0.0000045	J			E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	B	0.0028	0.00043				E	0.024	0.012	J			E	0.0000045	0.0000045	U			E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	B	0.0045	0.00043				E	0.073	0.012				E	0.0000045	0.0000045	U			E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	B	0.0041	0.00043				E	0.065	0.012				E	0.0000045	0.0000045	U			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	B	0.0037	0.00043				E	0.085	0.012				E	0.000006	0.0000045	J			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	B	0.0022	0.00043				E	0.085	0.012				E	0.0000045	0.0000045	U			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	B	0.0019	0.00043				E	0.078	0.012				E	0.0000045	0.0000045	U			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	B	0.0029	0.00043				E	0.2	0.012				E	0.0000045	0.0000045	U			E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	B	0.0032	0.00043				E	0.15	0.012				E	0.0000045	0.0000045	U			E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	B	0.0027	0.00043				E	0.18	0.012				E	0.0000045	0.0000045	U			E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	B	0.0028	0.00043					0.18	0.012					0.000006	0.0000045	J			
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	B	0.00043	0.00043	U				0.012	0.012	U				0.0000045	0.0000045	U			
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	B	0.0025	0.00043				E	0.024	0.012	J			E	0.00001	0.0000045				E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	B	0.0026	0.00043				E	0.023	0.012	J			E	0.0000045	0.0000045	U			E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	B	0.0027	0.00043					0.019	0.012	J				0.0000045	0.0000045	U			
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	B	0.00043	0.00043	U				0.012	0.012	U				0.0000045	0.0000045	U			
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	B	0.0027	0.00043				E	0.027	0.012	J			E	0.0000045	0.0000045	U			E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	B	0.0024	0.00043				E	0.031	0.012	J			E	0.0000045	0.0000045	U			E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	B	0.0019	0.00043				E	0.021	0.012	J			E	0.0000045	0.0000045	U			E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	B	0.0014	0.00043				E	0.091	0.012				E	0.0000045	0.0000045	U			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	B	0.0014	0.00043				E	0.09	0.012				E	0.0000045	0.0000045	U			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	B	0.0019	0.00043				E	0.28	0.012				E	0.0000045	0.0000045	U			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	B	0.0031	0.00043				E	0.027	0.012	J			E	0.0000047	0.0000047	U			E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	B	0.0024	0.00043				E	0.02	0.012	J			E	0.0000047	0.0000047	U			E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	B	0.0025	0.00043					0.029	0.012	J				0.0000047	0.0000047	U			
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	B	0.00043	0.00043	U				0.012	0.012	U				0.0000047	0.0000047	U			
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	B	0.0026	0.00043				E	0.026	0.012	J			E	0.0000047	0.0000047	U			E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	B	0.0014	0.00043				E	0.039	0.012	J			E	0.0000047	0.0000047	U			E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	B	0.0012	0.00043				E	0.017	0.012	J			E	0.0000047	0.0000047	U			E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	B	0.0019	0.00043				E	0.088	0.012				E	0.0000047	0.0000047	U			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	B	0.002	0.00043				E	0.071	0.012				E	0.0000047	0.0000047	U			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	B	0.003	0.00043				E	0.14	0.012				E	0.0000047	0.0000047	U			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	B	0.0019	0.00043				E	0.052	0.012				E	0.0000047	0.0000047	U			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	B	0.0029	0.00043				E	0.068	0.012				E	0.0000047	0.0000047	U			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	B	0.0028	0.00043					0.07	0.012					0.0000047	0.0000047	U			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	B	0.00043	0.00043	U				0.012	0.012	U				0.0000047	0.0000047	U			
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	B	0.0028	0.00043				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	B	0.0038	0.00043				E	0.013	0.012	J			E	0.0000047	0.0000047	U			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	B	0.0034	0.00043				E	0.036	0.012	J			E	0.0000047	0.0000047	U			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	B	0.0017	0.00043				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	B	0.0018	0.00043				E	0.016	0.012	J			E	0.0000047	0.0000047	U			E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	B	0.0026	0.00043				E	0.07	0.012				E	0.0000047	0.0000047	U			E

Table A2b. BPSOU 2021 Normal Flow Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	MoDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	B	0.45	0.000081				E	0.00011	0.000043				E	0.03	0.0023				E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	B	0.48	0.000081				E	0.000043	0.000043	U			E	0.017	0.0023				E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	B	0.49	0.000081					0.000043	0.000043	U				0.018	0.0023				
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	B	0.00011	0.000081	J				0.000043	0.000043	U				0.0023	0.0023	U			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	B	0.48	0.000081				E	0.000069	0.000043	J			E	0.013	0.0023				E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	B	0.6	0.000081				E	0.000043	0.000043	U			E	0.0081	0.0023				E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	B	0.22	0.000081				E	0.000043	0.000043	U			E	0.0055	0.0023				E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	B	0.0066	0.000081				E	0.000043	0.000043	U			E	0.0074	0.0023				E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	B	0.0063	0.000081				E	0.000047	0.000043	J			E	0.0081	0.0023				E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	B	0.0045	0.000081				E	0.000043	0.000043	U			E	0.0023	0.0023	U			E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	B	0.442	0.0016				E	0.000056	0.000043	J			E	0.0275	0.0023				E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	B	0.5	0.0016				E	0.000043	0.000043	U			E	0.017	0.0023				E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	B	0.57	0.0016					0.000043	0.000043	U				0.018	0.0023				
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	B	0.00014	0.000081	J				0.000043	0.000043	U				0.0023	0.0023	U			
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	B	0.59	0.0016				E	0.000044	0.000043	J			E	0.013	0.0023				E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	B	0.59	0.0016				E	0.000043	0.000043	U			E	0.0089	0.0023				E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	B	0.55	0.0016				E	0.000043	0.000043	U			E	0.0048	0.0023	J			E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	B	0.0069	0.000081				E	0.000043	0.000043	U			E	0.006	0.0023				E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	B	0.0068	0.000081				E	0.000043	0.000043	U			E	0.0054	0.0023				E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	B	0.0048	0.000081				E	0.000043	0.000043	U			E	0.011	0.0023				E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	B	0.37	0.000081				E	0.00018	0.000043				E	0.03	0.0023				E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	B	0.45	0.000081				E	0.000083	0.000043	J			E	0.018	0.0023				E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	B	0.5	0.0016				E	0.000086	0.000043	J			E	0.015	0.0023				E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	B	0.53	0.0016				E	0.000074	0.000043	J			E	0.011	0.0023				E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	B	0.5	0.0016				E	0.000066	0.000043	J			E	0.0077	0.0023				E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	B	0.0058	0.000081				E	0.00015	0.000043				E	0.013	0.0023				E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	B	0.0061	0.000081				E	0.00011	0.000043				E	0.0069	0.0023				E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	B	0.0044	0.000081				E	0.000091	0.000043	J			E	0.0034	0.0023	J			E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	B	0.0047	0.000081					0.000087	0.000043	J				0.0036	0.0023	J			
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	B	0.000081	0.000081	U				0.000043	0.000043	U				0.0023	0.0023	U			
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	B	0.48	0.000081	P6			E	0.000084	0.000043	J			E	0.022	0.0023				E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	B	0.53	0.000081				E	0.000043	0.000043	U			E	0.013	0.0023				E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	B	0.57	0.000081					0.000043	0.000043	U				0.014	0.0023				
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	B	0.00013	0.000081	J				0.000043	0.000043	U				0.0023	0.0023	U			
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	B	0.6	0.000081				E	0.000043	0.000043	U			E	0.011	0.0023				E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	B	0.6	0.000081				E	0.000058	0.000043	J			E	0.0092	0.0023				E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	B	0.56	0.000081				E	0.000043	0.000043	U			E	0.0044	0.0023	J			E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	B	0.0059	0.000081				E	0.000052	0.000043	J			E	0.0066	0.0023				E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	B	0.0059	0.000081				E	0.000069	0.000043	J			E	0.0046	0.0023	J			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	B	0.0048	0.000081				E	0.00018	0.000043				E	0.0023	0.0023	U			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	B	0.25	0.000081				E	0.00019	0.000043		J+	FB	S	0.029	0.0023				E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	B	0.52	0.00081				E	0.000043	0.000043	U			E	0.012	0.0023				E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	B	0.49	0.00081					0.000047	0.000043	J	UJ	FB		0.012	0.0023				
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	B	0.0001	0.000081	J				0.000076	0.000043	J				0.0023	0.0023	U			
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	B	0.56	0.00081				E	0.000043	0.000043	U			E	0.0087	0.0023				E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	B	0.56	0.00081				E	0.000043	0.000043	U			E	0.0059	0.0023				E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	B	0.51	0.00081				E	0.000043	0.000043	U			E	0.0037	0.0023	J			E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	B	0.0059	0.000081				E	0.000066	0.000043	J	UJ	FB	S	0.0048	0.0023	J			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	B	0.006	0.000081				E	0.000056	0.000043	J	UJ	FB	S	0.0026	0.0023	J			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	B	0.0052	0.000081				E	0.000087	0.000043	J	UJ	FB	S	0.0023	0.0023	J			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	B	0.0065	0.000081				E	0.000057	0.000043	J			E	0.0043	0.0023	J			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	B	0.0054	0.000081				E	0.000052	0.000043	J			E	0.0023	0.0023	U			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	B	0.0054	0.000081					0.000056	0.000043	J				0.0027	0.0023	J			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	B	0.000081	0.000081	U				0.000043	0.000043	U				0.0028	0.0023	J			
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	B	0.24	0.000081				E	0.00013	0.000043				E	0.026	0.0023				E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	B	0.31	0.000081				E	0.000043	0.000043	U			E	0.0023	0.0023	J			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	B	0.47	0.000081				E	0.00009	0.000043	J			E	0.0075	0.0023				E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	B	0.51	0.000081				E	0.000043	0.000043	U			E	0.0034	0.0023	J			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	B	0.56	0.000081				E	0.000043	0.000043	U			E	0.0028	0.0023	J			E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	B	0.007	0.000081				E	0.000093	0.000043	J			E	0.0026	0.0023	J			E

Table A2b. BPSOU 2021 Normal Flow Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	AgDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	B	0.00016	0.00016	U			E	0.019	0.008	J			E	0.0023	0.000083				E	0.000039	0.000016	J			E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0027	0.000083				E	0.000038	0.000016	J			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	B	0.00016	0.00016	U				0.008	0.008	U				0.0025	0.000083					0.000032	0.000016	J			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	B	0.00016	0.00016	U			E	0.011	0.008	J			E	0.0019	0.000083				E	0.000016	0.000016	U			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	B	0.00016	0.00016	U			E	0.016	0.008	J			E	0.002	0.000083				E	0.000016	0.000016	U			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	B	0.00016	0.00016	U			E	0.015	0.008	J			E	0.0017	0.000083				E	0.000016	0.000016	U			E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0033	0.000083				E	0.00003	0.000016	J			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0023	0.000083				E	0.000016	0.000016	U			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.002	0.000083				E	0.000016	0.000016	U			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	B	0.00016	0.00016	U			E	0.018	0.008	J			E	0.0031	0.000083				E	0.000063	0.000016	J			E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	B	0.00016	0.00016	U			E	0.015	0.008	J			E	0.003	0.000083				E	0.00006	0.000016	J			E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	B	0.00016	0.00016	U				0.016	0.008	J				0.0032	0.000083					0.000066	0.000016	J			
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	B	0.00016	0.00016	U			E	0.024	0.008				E	0.003	0.000083				E	0.000034	0.000016	J			E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	B	0.00016	0.00016	U			E	0.021	0.008				E	0.0027	0.000083				E	0.000028	0.000016	J			E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	B	0.00016	0.00016	U			E	0.026	0.008				E	0.0028	0.000083				E	0.000016	0.000016	U			E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0031	0.000083				E	0.000016	0.000016	U			E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0021	0.000083				E	0.000016	0.000016	U			E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0021	0.000083				E	0.000016	0.000016	U			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	B	0.00016	0.00016	U			E	0.027	0.008				E	0.0033	0.000083				E	0.000026	0.000016	J			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	B	0.00016	0.00016	U			E	0.026	0.008				E	0.0035	0.000083				E	0.000016	0.000016	U			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	B	0.00016	0.00016	U				0.025	0.008					0.0034	0.000083					0.000016	0.000016	U			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	B	0.00016	0.00016	U			E	0.032	0.008				E	0.0029	0.000083				E	0.000016	0.000016	U			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	B	0.00016	0.00016	U			E	0.036	0.008				E	0.0032	0.000083				E	0.000016	0.000016	U			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	B	0.00016	0.00016	U			E	0.035	0.008				E	0.0029	0.000083				E	0.000016	0.000016	U			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0026	0.000083				E	0.000016	0.000016	U			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0018	0.000083				E	0.000016	0.000016	U			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0016	0.000083				E	0.000016	0.000016	U			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	B	0.00016	0.00016	U			E	0.029	0.008				E	0.0031	0.000083				E	0.000073	0.000016	J			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	B	0.00016	0.00016	U			E	0.026	0.008				E	0.0043	0.000083				E	0.00011	0.000016				E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	B	0.00016	0.00016	U				0.024	0.008					0.0043	0.000083					0.0001	0.000016				
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	B	0.00016	0.00016	U			E	0.033	0.008				E	0.0032	0.000083				E	0.000088	0.000016				E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	B	0.00016	0.00016	U			E	0.034	0.008				E	0.0033	0.000083				E	0.000089	0.000016				E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	B	0.00016	0.00016	U			E	0.036	0.008				E	0.003	0.000083				E	0.000072	0.000016	J			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0023	0.000083				E	0.000016	0.000016	U			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0017	0.000083				E	0.000016	0.000016	U			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0014	0.000083				E	0.000061	0.000016	J			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	B	0.00016	0.00016	U,L1			E	0.027	0.008				E	0.0027	0.000083				E	0.000095	0.000016	B	J+	MB	S
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	B	0.00016	0.00016	U,L1			E	0.035	0.008				E	0.0029	0.000083				E	0.000091	0.000016	B	J+	MB	S
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	B	0.00016	0.00016	U,L1				0.051	0.008					0.0029	0.000083					0.000099	0.000016	B	J+	MB	
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	B	0.00016	0.00016	U,L1				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	J,B	UJ	MB	
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	B	0.00016	0.00016	U,L1			E	0.04	0.008				E	0.0024	0.000083				E	0.00008	0.000016	J,B	UJ	MB	S
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	B	0.00016	0.00016	U,L1			E	0.038	0.008				E	0.0022	0.000083				E	0.000083	0.000016	B	J+	MB	S
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	B	0.00016	0.00016	U,L1			E	0.04	0.008				E	0.0021	0.000083				E	0.000053	0.000016	J,B	UJ	MB	S
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	B	0.00016	0.00016	U,L1			E	0.008	0.008	U			E	0.002	0.000083				E	0.000016	0.000016	U			E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	B	0.00016	0.00016	U,L1			E	0.008	0.008	U			E	0.0016	0.000083				E	0.000035	0.000016	J,B	UJ	MB	S
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	B	0.00016	0.00016	U,L1			E	0.008	0.008	U			E	0.0014	0.000083				E	0.000016	0.000016	U			E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	B	0.00016	0.00016	U			E	0.02	0.008				E	0.002	0.000083				E	0.000054	0.000016	J,B	UJ	MB	S
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	B	0.00016	0.00016	U			E	0.023	0.008				E	0.0022	0.000083				E	0.000045	0.000016	J,B	UJ	MB	S
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	B	0.00016	0.00016	U				0.021	0.008					0.0021	0.000083					0.000056	0.000016	J,B	UJ	MB	
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U				0.000016	0.000016	U			
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	B	0.00016	0.00016	U			E	0.029	0.008				E	0.0018	0.000083				E	0.000034	0.000016	J,B	UJ	MB	S
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	B	0.00016	0.00016	U			E	0.033	0.008				E	0.0019	0.000083				E	0.000016	0.000016	U			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	B	0.00016	0.00016	U			E	0.031	0.008				E	0.0017	0.000083				E	0.000016	0.000016	U			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0021	0.000083				E	0.000017	0.000016	J,B	UJ	MB	S
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0015	0.000083				E	0.000019	0.000016	J,B	UJ	MB	S
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0012	0.000083				E	0.000016	0.000016	U			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2b. BPSOU 2021 Normal Flow Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	CuDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	HgDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	B	0.0021	0.0005				E	0.014	0.012	J	UJ	FB	S	0.0000047	0.0000047	U			E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	B	0.0024	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	B	0.0024	0.0005					0.012	0.012	U				0.0000047	0.0000047	U			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	B	0.0005	0.0005	U				0.04	0.012	J				0.0000047	0.0000047	U			
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	B	0.0018	0.0005				E	0.013	0.012	J	UJ	FB	S	0.0000047	0.0000047	U			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	B	0.0011	0.0005				E	0.013	0.012	J	UJ	FB	S	0.0000047	0.0000047	U			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	B	0.00091	0.0005	J			E	0.012	0.012	J	UJ	FB	S	0.0000047	0.0000047	U			E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	B	0.0012	0.0005				E	0.058	0.012		J+	FB	S	0.0000047	0.0000047	U			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	B	0.0012	0.0005				E	0.039	0.012	J	UJ	FB	S	0.0000047	0.0000047	U			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	B	0.0017	0.0005				E	0.058	0.012		J+	FB	S	0.0000047	0.0000047	U			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	B	0.0023	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	B	0.0023	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	B	0.0024	0.0005					0.012	0.012	U				0.0000047	0.0000047	U			
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	B	0.0024	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	B	0.0012	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	B	0.0037	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	B	0.0018	0.0005				E	0.043	0.012	J			E	0.0000047	0.0000047	U			E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	B	0.0016	0.0005				E	0.028	0.012	J			E	0.0000047	0.0000047	U			E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	B	0.002	0.0005				E	0.046	0.012	J			E	0.0000047	0.0000047	U			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	B	0.0023	0.0005				E	0.057	0.012				E	0.0000047	0.0000047	U			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	B	0.0022	0.0005				E	0.013	0.012	J			E	0.0000047	0.0000047	U			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	B	0.002	0.0005					0.012	0.012	U				0.0000047	0.0000047	U			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	B	0.0022	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	B	0.0015	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	B	0.0013	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	B	0.0013	0.0005				E	0.029	0.012	J			E	0.0000047	0.0000047	U			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	B	0.0013	0.0005				E	0.016	0.012	J			E	0.0000047	0.0000047	U			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	B	0.0017	0.0005				E	0.039	0.012	J			E	0.0000047	0.0000047	U			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	B	0.0031	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	B	0.0026	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	B	0.0024	0.0005					0.012	0.012	U				0.0000047	0.0000047	U			
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	B	0.0022	0.0005				E	0.014	0.012	J			E	0.0000047	0.0000047	U			E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	B	0.0013	0.0005				E	0.015	0.012	J			E	0.0000047	0.0000047	U			E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	B	0.0013	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	B	0.0011	0.0005				E	0.046	0.012	J			E	0.0000047	0.0000047	U			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	B	0.0013	0.0005				E	0.028	0.012	J			E	0.0000047	0.0000047	U			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	B	0.00098	0.0005	J			E	0.053	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	B	0.0022	0.0005				E	0.013	0.012	J			E	0.0000047	0.0000047	U			E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	B	0.0019	0.0005				E	0.023	0.012	J			E	0.0000047	0.0000047	U			E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	B	0.0019	0.0005					0.027	0.012	J				0.0000047	0.0000047	U			
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	B	0.0019	0.0005				E	0.021	0.012	J			E	0.0000047	0.0000047	U			E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	B	0.0011	0.0005				E	0.024	0.012	J			E	0.0000047	0.0000047	U			E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	B	0.0011	0.0005				E	0.019	0.012	J			E	0.0000047	0.0000047	U			E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	B	0.00084	0.0005	J			E	0.056	0.012				E	0.0000047	0.0000047	U			E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	B	0.001	0.0005				E	0.03	0.012	J			E	0.0000047	0.0000047	U			E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	B	0.00099	0.0005	J			E	0.051	0.012				E	0.0000047	0.0000047	U			E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	B	0.0022	0.0005				E	0.019	0.012	J			E	0.0000047	0.0000047	U			E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	B	0.002	0.0005				E	0.012	0.012	U			E	0.0000047	0.0000047	U			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	B	0.0019	0.0005					0.012	0.012	U				0.0000047	0.0000047	U			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	B	0.0005	0.0005	U				0.012	0.012	U				0.0000047	0.0000047	U			
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	B	0.0021	0.0005				E	0.025	0.012	J			E	0.0000047	0.0000047	U			E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	B	0.0013	0.0005				E	0.021	0.012	J			E	0.0000047	0.0000047	U			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	B	0.001	0.0005				E	0.017	0.012	J			E	0.0000047	0.0000047	U			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	B	0.001	0.0005				E	0.07	0.012				E	0.0000047	0.0000047	U			E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	B	0.0011	0.0005				E	0.025	0.012	J			E	0.0000047	0.0000047	U			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	B	0.0012	0.0005				E	0.056	0.012				E	0.0000047	0.0000047	U			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2b. BPSOU 2021 Normal Flow Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	MoDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDIS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	B	0.29	0.000094				E	0.000069	0.000028	J			E	0.018	0.002				E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	B	0.31	0.000094				E	0.000028	0.000028	U			E	0.013	0.002				E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	B	0.28	0.000094					0.000028	0.000028	U				0.012	0.002				
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	B	0.000094	0.000094	U				0.000042	0.000028	J				0.002	0.002	U			
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	B	0.41	0.000094				E	0.000028	0.000028	U			E	0.01	0.002				E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	B	0.45	0.000094				E	0.000028	0.000028	U			E	0.0067	0.002				E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	B	0.44	0.000094				E	0.000028	0.000028	U			E	0.0034	0.002	J			E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	B	0.0075	0.000094				E	0.000028	0.000028	U			E	0.0051	0.002				E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	B	0.0079	0.000094				E	0.000028	0.000028	U			E	0.0068	0.002				E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	B	0.0049	0.000094				E	0.000038	0.000028	J			E	0.0026	0.002	J			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	B	0.34	0.000094				E	0.000078	0.000028	J			E	0.018	0.002				E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	B	0.37	0.000094				E	0.000034	0.000028	J			E	0.011	0.002				E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	B	0.39	0.000094					0.000038	0.000028	J				0.012	0.002				
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	B	0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	B	0.43	0.000094				E	0.000044	0.000028	J			E	0.0089	0.002				E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	B	0.39	0.000094				E	0.000039	0.000028	J			E	0.0054	0.002				E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	B	0.44	0.000094				E	0.00013	0.000028				E	0.0041	0.002	J			E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	B	0.0063	0.000094				E	0.000061	0.000028	J			E	0.0028	0.002	J			E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	B	0.0062	0.000094				E	0.000032	0.000028	J			E	0.0041	0.002	J			E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	B	0.0045	0.000094				E	0.000028	0.000028	U			E	0.002	0.002	U			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	B	0.43	0.000094				E	0.00025	0.000028				E	0.031	0.002				E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	B	0.49	0.000094				E	0.000052	0.000028	J			E	0.014	0.002				E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	B	0.49	0.000094					0.000052	0.000028	J				0.014	0.002				
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	B	0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	B	0.47	0.000094				E	0.000063	0.000028	J			E	0.0073	0.002				E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	B	0.5	0.000094				E	0.000067	0.000028	J			E	0.0058	0.002				E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	B	0.48	0.000094				E	0.000028	0.000028	U			E	0.0045	0.002	J			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	B	0.0071	0.000094				E	0.000031	0.000028	J			E	0.0038	0.002	J			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	B	0.0067	0.000094				E	0.000028	0.000028	U			E	0.0056	0.002				E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	B	0.0048	0.000094				E	0.000048	0.000028	J			E	0.002	0.002	U			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	B	0.32	0.000094	M1	J+	MS	S	0.00012	0.000028				E	0.042	0.002				E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	B	0.45	0.000094		J+	MS	S	0.000028	0.000028	U			E	0.015	0.002				E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	B	0.43	0.000094		J+	MS		0.000028	0.000028	U				0.015	0.002				
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	B	0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	B	0.51	0.00094		J+	MS	S	0.000028	0.000028	U			E	0.0099	0.002				E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	B	0.53	0.00094		J+	MS	S	0.000028	0.000028	U			E	0.008	0.002				E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	B	0.52	0.00094		J+	MS	S	0.000028	0.000028	U			E	0.0044	0.002	J			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	B	0.0071	0.000094				E	0.000038	0.000028	J			E	0.005	0.002	J			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	B	0.0069	0.000094				E	0.000038	0.000028	J			E	0.0053	0.002				E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	B	0.0047	0.000094				E	0.000028	0.000028	U			E	0.002	0.002	U			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	B	0.34	0.000094				E	0.000092	0.000028	J,B	J+	FB	S	0.027	0.002				E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	B	0.43	0.000094				E	0.000041	0.000028	J,B	J+	FB	S	0.013	0.002				E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	B	0.41	0.000094					0.000048	0.000028	J,B	J+	FB		0.013	0.002				
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	B	0.000094	0.000094	U				0.000046	0.000028	J,B				0.002	0.002	U			
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	B	0.45	0.00094				E	0.000047	0.000028	J,B	J+	FB	S	0.0097	0.002				E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	B	0.41	0.00094				E	0.00008	0.000028	J,B	J+	FB	S	0.0074	0.002				E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	B	0.43	0.000094				E	0.000067	0.000028	J,B	J+	FB	S	0.0043	0.002	J			E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	B	0.0062	0.000094				E	0.000063	0.000028	J,B	J+	FB	S	0.0063	0.002				E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	B	0.0067	0.000094				E	0.000075	0.000028	J,B	J+	FB	S	0.0064	0.002				E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	B	0.0049	0.000094				E	0.000048	0.000028	J,B	J+	FB	S	0.0024	0.002	J			E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	B	0.3	0.000094				E	0.00017	0.000028	B	J+	MB	S	0.03	0.002				E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	B	0.36	0.000094				E	0.000039	0.000028	J,B	UJ	MB	S	0.015	0.002				E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	B	0.35	0.000094					0.000028	0.000028	U				0.015	0.002				
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	B	0.000094	0.000094	U				0.000036	0.000028	J				0.002	0.002	U			
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	B	0.39	0.000094				E	0.000065	0.000028	J,B	UJ	MB	S	0.011	0.002				E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	B	0.4	0.000094				E	0.000038	0.000028	J,B	UJ	MB	S	0.0077	0.002				E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	B	0.38	0.000094				E	0.000035	0.000028	J,B	UJ	MB	S	0.0039	0.002	J			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	B	0.007	0.000094				E	0.00006	0.000028	J,B	UJ	MB	S	0.0067	0.002				E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	B	0.0066	0.000094				E	0.00003	0.000028	J,B	UJ	MB	S	0.0057	0.002				E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	B	0.0045	0.000094				E	0.000041	0.000028	J,B	UJ	MB	S	0.0028	0.002	J			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2c. BPSOU 2021 Normal Flow Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alkalinity (mg $CaCO_3$/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CaDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	DOC (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Hardness (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	B	79.2	2				E	254	0.15				E	2.7	0.3		J+	FB	S	687	0.54				E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	B	69.5	2				E	265	0.15				E	1.6	0.3		J+	FB	S	712	0.54				E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	B	70.3	2					272	0.15					1.6	0.3		J+	FB		732	0.54				
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	B	2	2	U				0.038	0.015	J				0.59	0.3	J				0.11	0.054	J			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	B	70.6	2				E	270	0.15				E							715	0.54				E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	B	62	2				E	328	0.15				E							861	0.54				E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	B	89.7	2				E	148	0.15				E							409	0.54				E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	B	109	2				E	42	0.015	P6			E							148	0.054				E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	B	107	2				E	40.2	0.015				E	1.3	0.3		J+	FB	S	142	0.054				E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	B	98.6	2				E	36	0.015				E	1.5	0.3		J+	FB	S	128	0.054				E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	B	74.7	2		J-	IP	S			P6			E			B	J	IP,MB	S						E
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	B	64.6	2		J-	IP	S	299	0.3				E			B	J	IP,MB	S	799	1.1				E
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	B	64.8	2		J-	IP		327	0.3							B	J	IP,MB		872	1.1				
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	B	2	2	U	UJ	IP		0.027	0.015	J						J,B	UJ	IP,MB		0.091	0.054	J			
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	B	62.1	2		J-	IP	S	331	0.3				E							869	1.1				E
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	B	92.6	2		J-	IP	S	324	0.3				E							863	1.1				E
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	B	59.8	2		J-	IP	S	309	0.3				E							814	1.1				E
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	B	107	2		J-	IP	S	42.2	0.3				E							155	1.1				E
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	B	105	2		J-	IP	S	42.1	0.3				E			B	J	IP,MB	S	154	1.1				E
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	B	93.6	2		J-	IP	S	36.2	0.3				E			B	J	IP,MB	S	236	1.1				E
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	B	78.7	2				E	238	0.3	P6			E	4.8	0.3		J+	FB	S	644	1.1				E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	B	68.8	2				E	277	0.3				E	4.4	0.3		J+	FB	S	740	1.1				E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	B	65.8	2				E	296	0.3				E							777	1.1				E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	B	65.7	2				E	315	0.3				E							826	1.1				E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	B	65.7	2				E	298	0.3				E							781	1.1				E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	B	97.3	2				E	36.8	0.3				E							128	1.1				E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	B	93.3	2				E	38.4	0.3				E	5	0.3		J+	FB	S	134	1.1				E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	B	88.1	2				E	32.4	0.3				E	5	0.3		J+	FB	S	113	1.1				E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	B	86.9	2					32.7	0.3					4.8	0.3		J+	FB		115	1.1				
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	B	2	2	U				0.015	0.015	U				0.94	0.3	J,B				0.054	0.054	U			
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	B	75.3	2				E	295	0.15	P6			E	3.4	0.3				E	782	0.54				E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	B	68.8	2				E	309	0.15				E	2.2	0.3				E	818	0.54				E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	B	67.5	2					322	0.15					2.1	0.3					854	0.54				
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	B	2	2	U				0.015	0.015	U				0.36	0.3	J				0.054	0.054	U			
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	B	65.2	2				E	345	0.15				E							901	0.54				E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	B	67.7	2				E	340	0.15				E							889	0.54				E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	B	65.3	2				E	317	0.15				E							828	0.54				E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	B	94.8	2				E	35.7	0.015				E							126	0.054				E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	B	92.8	2				E	35.7	0.015				E	2.4	0.3				E	127	0.054				E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	B	77.9	2				E	30.2	0.015				E	3.4	0.3				E	107	0.054				E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	B	91.5	2	M1	J-	IP,MS	S	211	0.15	P6			E	2.9	0.3	B	J-	IP	S	567	0.54				E
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	B	67.4	2		J-	IP,MS	S	319	0.76				E	2.2	0.3	B	J-	IP	S	839	2.7				E
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	B	67.1	2		J-	IP,MS		310	0.76					2.5	0.3	B	J-	IP		817	2.7				
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	B	2	2	U				0.016	0.015	J				0.3	0.3	U	UJ	IP		0.062	0.054	J			
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	B	68	2		J-	IP,MS	S	340	0.76				E							884	2.7				E
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	B	69.2	2				E	323	0.76				E							843	2.7				E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	B	69.8	2				E	304	0.76				E							793	2.7				E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	B	102	2				E	36.8	0.15				E							130	0.54				E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	B	97.7	2				E	36.1	0.15				E	2.5	0.3	B			E	128	0.54				E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	B	88	2				E	33.2	0.15				E	3.1	0.3				E	117	0.54				E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	B	106	1.8				E	39.5	0.015				E	2.2	0.3		J+	FB	S	141	0.054				E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	B	93.7	1.8				E	34.1	0.015				E	2.4	0.3		J+	FB	S	122	0.054				E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	B	94.8	1.8					34.3	0.015					2.2	0.3		J+	FB		122	0.054				
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	B	1.8	1.8	U				0.033	0.015	J				0.51	0.3	J				0.11	0.054	J			
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	B	84	1.8	M1	J-	MS	S	161	0.15	P6			E	3	0.3		J+	FB	S	445	0.54				E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	B	69.4	1.8				E	186	0.15				E	2.2	0.3		J+	FB	S	513	0.54				E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	B	53.8	1.8				E	267	0.15				E							696	0.54				E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	B	56.6	1.8				E	295	0.15				E							766	0.54				E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	B	55	1.8				E	308	0.15				E							800	0.54				E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	B	107	1.8				E	36.8	0.015				E							131	0.054				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2c. BPSOU 2021 Normal Flow Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	MgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NH3-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NO3/NO2 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	P (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	B	12.9	0.0039				E	0.034	0.025	J			E	1.3	0.078				E	0.26	0.028				E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	B	12.5	0.0039				E	0.074	0.025	J			E	1.4	0.078				E	0.056	0.028	J			E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	B	12.9	0.0039					0.035	0.025	J				1.4	0.078					0.048	0.028	J			
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	B	0.0047	0.0039	J				0.025	0.025	U				0.078	0.078	U				0.028	0.028	U			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	B	9.8	0.0039				E							1.2	0.078				E						
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	B	10.1	0.0039				E							1.2	0.078				E						
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	B	9.7	0.0039				E							1.5	0.078				E						
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	B	10.4	0.0039	P6			E							1.8	0.078				E						
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	B	10.1	0.0039				E	0.025	0.025	U			E	1.8	0.078				E	0.12	0.028				E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	B	9.2	0.0039				E	0.025	0.025	U			E	1.7	0.078				E	0.1	0.028				E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	B						E	0.035	0.025	J	J-	IP	S	1	0.078		J-	IP	S	0.058	0.028	J	J-	IP	S
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	B	12.7	0.0039				E	0.06	0.025	J	J-	IP	S	1.2	0.078		J-	IP	S	0.072	0.028	J	J-	IP	S
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	B	13.3	0.0039					0.032	0.025	J	J-	IP		1.2	0.078		J-	IP		0.059	0.028	J	J-	IP	
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	B	0.0057	0.0039	J				0.025	0.025	U	UJ	IP		0.078	0.078	U	UJ	IP		0.028	0.028	U	UJ	IP	
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	B	10.5	0.0039				E							1	0.078		J-	IP	S						
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	B	13.2	0.0039				E							1	0.078		J-	IP	S						
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	B	10.1	0.0039				E							1	0.078		J-	IP	S						
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	B	11.9	0.0039				E							1.6	0.078		J-	IP	S						
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	B	12	0.0039				E	0.025	0.025	U	UJ	IP	S	1.7	0.078		J-	IP	S	0.092	0.028	J	J-	IP	S
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	B	35.4	0.078				E	0.056	0.025	J	J-	IP	S	1.1	0.078		J-	IP	S	0.18	0.028		J-	IP	S
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	B	11.8	0.0039				E	0.038	0.03	J			E	0.87	0.078				E	0.12	0.028	M1	J-	MS	S
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	B	11.7	0.0039				E	0.043	0.03	J			E	0.93	0.078				E	0.1	0.028		J-	MS	S
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	B	9.2	0.0039				E							0.86	0.078				E						
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	B	9.4	0.0039				E							0.89	0.078				E						
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	B	8.9	0.0039				E							0.92	0.078				E						
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	B	8.9	0.0039				E							0.99	0.078				E						
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	B	9.2	0.0039				E	0.03	0.03	U,M1			E	1.2	0.078				E	0.16	0.028				E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	B	7.7	0.0039				E	0.03	0.03	U			E	1	0.078				E	0.15	0.028				E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	B	8	0.0039					0.03	0.03	U				1.1	0.078					0.14	0.028				
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	B	0.0039	0.0039	U				0.03	0.03	U				0.078	0.078	U				0.028	0.028	U			
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	B	11.1	0.0039	P6			E	0.084	0.03	J			E	0.93	0.078				E	0.05	0.05	U			E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	B	11.3	0.0039				E	0.077	0.03	J			E	1.1	0.078				E	0.05	0.05	U			E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	B	12.1	0.0039					0.033	0.03	J				1.1	0.078					0.05	0.05	U			
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	B	0.004	0.0039	J				0.03	0.03	U				0.078	0.078	U				0.05	0.05	U			
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	B	9.7	0.0039				E							0.9	0.078				E						
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	B	9.6	0.0039				E							0.89	0.078				E						
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	B	9	0.0039				E							0.94	0.078				E						
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	B	9	0.0039				E							1.1	0.078				E						
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	B	9.1	0.0039				E	0.03	0.03	U			E	1.4	0.078				E	0.05	0.05	U			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	B	7.6	0.0039				E	0.03	0.03	U			E	0.84	0.078				E	0.05	0.05	U			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	B	9.9	0.0039				E	0.03	0.03	U,M1	UJ	IP	S	0.82	0.078	B	J-	IP	S	0.11	0.05		J-	IP	S
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	B	10.2	0.0039				E	0.03	0.03	U	UJ	IP	S	0.9	0.078		J-	IP	S	0.05	0.05	U	UJ	IP	S
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	B	10	0.0039					0.03	0.03	U	UJ	IP		0.99	0.078		J-	IP		0.05	0.05	U	UJ	IP	
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	B	0.005	0.0039	J				0.03	0.03	U	UJ	IP		0.078	0.078	U	UJ	IP		0.05	0.05	U	UJ	IP	
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	B	8.4	0.0039				E							0.84	0.078	B	J-	IP	S						
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	B	8.6	0.0039				E							0.8	0.078	B			E						
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	B	8.4	0.0039				E							0.89	0.078				E						
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	B	9.3	0.0039				E							0.94	0.078				E						
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	B	9.2	0.0039				E	0.03	0.03	U			E	1	0.078				E	0.05	0.05	U			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	B	8.4	0.0039				E	0.03	0.03	U			E	0.79	0.078	B			E	0.063	0.05	J			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	B	10.2	0.0039				E	0.04	0.03	J			E	1.4	0.078				E	0.1	0.05				E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	B	8.8	0.0039				E	0.03	0.03	U			E	1.1	0.078				E	0.084	0.05	J			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	B	8.9	0.0039					0.03	0.03	U				1.1	0.078					0.067	0.05	J			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	B	0.0057	0.0039	J				0.03	0.03	U				0.079	0.078	J				0.05	0.05	U			
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	B	10.3	0.0039				E	0.03	0.03	U			E	0.75	0.078				E	0.05	0.05	U			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	B	11.9	0.0039				E	0.03	0.03	U			E	1	0.078				E	0.063	0.05	J			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	B	7.4	0.0039				E							0.8	0.078				E						
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	B	7.5	0.0039				E							0.87	0.078				E						
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	B	7.5	0.0039				E							0.87	0.078				E						
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	B	9.4	0.0039				E							1.1	0.078				E						

Table A2c. BPSOU 2021 Normal Flow Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TDS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TKN (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10545858	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	B	590	19.4				E	1080	25		J	FD	S	0.48	0.48	U			E	5	5	U			E
10545858	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	B	672	24.2				E	385	25		J	FD	S	0.48	0.48	U			E	5	5	U			E
10545858	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	B	631	19.4					1200	25		J	FD		0.48	0.48	U				5	5	U			
10545858	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	B	1.2	1.2	U				5	5	U				0.48	0.48	U				5	5	U			
10545858	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	B	617	19.4				E	1130	25		J	FD	S							5	5	U			E
10545858	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	B	768	24.2				E	1390	25		J	FD	S							5	5	U			E
10545858	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	B	278	60.5				E	688	10		J	FD	S							5	5	U			E
10545858	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	B	35.6	1.2	M1	J-	MS	S	231	5	D6			E							6.6	5	J			E
10545858	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	B	35	1.2		J-	MS	S	206	5				E	0.48	0.48	U			E	5	5	U			E
10545858	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	B	33.7	1.2		J-	MS	S	202	5				E	0.48	0.48	U			E	5	5	U			E
10550036	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	B	553	30.2	M6	J	IP,MS	S							0.48	0.48	,M1,R	UJ	P,MS,RP	S						
10550036	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	B	755	24.2		J-	IP	S							0.48	0.48	U	UJ	P,MS,RP	S						
10550036	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	B	792	24.2		J-	IP								0.48	0.48	U	UJ	P,MS,RP							
10550036	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	B	1.2	1.2	U	UJ	IP								0.48	0.48	U	UJ	IP							
10550036	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	B	771	30.2		J-	IP	S																		
10550036	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	B	764	30.2		J-	IP	S																		
10550036	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	B	717	24.2		J-	IP	S																		
10550036	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	B	34.3	1.2		J-	IP	S																		
10550036	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	B	34.9	1.2		J-	IP	S							0.48	0.48	U	UJ	IP	S						
10550036	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	B	38	1.2		J-	IP	S							0.48	0.48	U	UJ	IP	S						
10551370	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	B	603	24.2	M6			E	970	25	D6	J	RPD	S	0.48	0.48	U			E	5	5	U			E
10551370	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	B	550	60.5				E	1180	25		J	RPD	S	0.48	0.48	U			E	5	5	U			E
10551370	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	B	711	24.2				E	1320	25		J	RPD	S							5	5	U			E
10551370	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	B	618	60.5				E	1250	25		J	RPD	S							5	5	U			E
10551370	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	B	725	24.2				E	1240	25		J	RPD	S							5	5	U			E
10551370	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	B	33.8	6				E	218	5				E							5	5	U			E
10551370	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	B	38.2	1.2				E	219	5				E	0.58	0.48				E	5	5	U			E
10551370	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	B	36.5	1.2				E	186	5				E	0.77	0.48				E	5	5	U			E
10551370	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	B	36.4	1.2					186	5					0.48	0.48	U				5	5	U			
10551370	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	B	1.2	1.2	U				5	5	U				0.48	0.48	U				5	5	U			
10555588	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	B	753	30.2				E	1230	25				E	9.2	0.48	M1	J-	MS,FD	S	5	5	U			E
10555588	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	B	778	30.2				E	1400	25				E	3.5	0.48		J-	MS,FD	S	5	5	U			E
10555588	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	B	762	30.2					1440	25					0.48	0.48	U	UJ	MS,FD		5	5	U			
10555588	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	B	1.2	1.2	J				11	5					0.48	0.48	U				5	5	U			
10555588	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	B	811	30.2				E	1480	25				E							7.5	5	J			E
10555588	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	B	817	30.2				E	1320	25				E							5	5	U			E
10555588	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	B	820	30.2				E	1320	25				E							5	5	U			E
10555588	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	B	36.2	1.2				E	207	5				E							9	5	J			E
10555588	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	B	32.4	1.2				E	213	5				E	0.48	0.48	U			E	5	5	U			E
10555588	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	B	27.7	1.2				E	181	5				E	1.3	0.48				E	6.2	5	J			E
10561813	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	B	536	24.2	M1	J	IP,MS	S	854	10		J-	IP	S	1.3	0.48		J-	IP	S	5	5	U	UJ	IP	S
10561813	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	B	987	30.2		J	IP,MS	S	1280	25		J-	IP	S	0.7	0.48		J-	IP	S	5	5	U	UJ	IP	S
10561813	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	B	964	30.2		J	IP,MS		1260	25		J-	IP		1	0.48		J-	IP		5	5	J	J-	IP	
10561813	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	B	1.2	1.2	U	UJ	IP		8	5	J	J-	IP		0.48	0.48	U	UJ	IP		5	5	U	UJ	IP	
10561813	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	B	991	30.2		J	IP,MS	S	1220	25		J-	IP	S							5	5	U	UJ	IP	S
10561813	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	B	958	30.2		J+	MS	S	1260	25				E							5	5	U			E
10561813	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	B	841	30.2		J+	MS	S	1220	25				E							5	5	U			E
10561813	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	B	42.1	6				E	199	5				E							5	5	U			E
10561813	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	B	40	6				E	201	5				E	0.56	0.48				E	5	5	U			E
10561813	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	B	37.2	1.2				E	178	5				E	0.48	0.48	J			E	5	5	U			E
10564925	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	B	32	1.2				E	212	5		J	FD	S	0.48	0.48	U			E	5	5	U			E
10564925	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	B	29.8	1.2				E	192	5		J	FD	S	0.48	0.48	U			E	5	5	U			E
10564925	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	B	31	1.2					92	5		J	FD		0.48	0.48	U				5	5	U			
10564925	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	B	1.2	1.2	U				5	5	U				0.48	0.48	U				5	5	U			
10564925	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	B	398	30.2	M1	J-	MS	S	754	10		J	FD	S	0.48	0.48	U			E	5	5	U			E
10564925	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	B	476	30.2		J-	MS	S	874	10		J	FD	S	0.48	0.48	U			E	5	5	U			E
10564925	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	B	795	30.2		J-	MS	S	1100	25		J	FD	S							5	5	U			E
10564925	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	B	741	30.2		J-	MS	S	1220	25		J	FD	S							5	5	U			E
10564925	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	B	750	30.2		J-	MS	S	1300	25		J	FD	S							5	5	U			E
10564925	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	B	34.1	1.2				E	127	5		J	FD	S							5	5	U			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2c. BPSOU 2021 Normal Flow Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alkalinity (mg $CaCO_3$/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CaDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	DOC (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Hardness (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	B	62.5	1.8				E	191	0.18	P6			E	2.1	0.3		J+	FB	S	514	0.6				E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	B	58.9	1.8				E	210	0.18				E	1.6	0.3		J+	FB	S	565	0.6				E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	B	58.7	1.8					189	0.18					1.5	0.3		J+	FB		508	0.6				
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	B	2.7	1.8	J				0.025	0.018	J				0.49	0.3	J				0.079	0.06	J			
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	B	49.2	1.8				E	240	0.18				E							620	0.6				E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	B	48.5	1.8				E	270	0.18				E							696	0.6				E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	B	46.4	1.8				E	261	0.18				E							671	0.6				E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	B	116	1.8				E	45.7	0.18				E							161	0.6				E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	B	117	1.8				E	46.3	0.18				E	1.7	0.3		J+	FB	S	165	0.6				E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	B	108	1.8				E	40.5	0.018				E	1.7	0.3		J+	FB	S	143	0.06				E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	B	66.9	1.8				E	228	0.36	P6			E	2.2	0.3		J+	FB	S	606	1.2				E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	B	58.3	1.8				E	250	0.36				E	1.7	0.3		J+	FB	S	659	1.2				E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	B	57.8	1.8					253	0.36					1.8	0.3		J+	FB		669	1.2				
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	B	1.8	1.8	U				0.019	0.018	J				0.53	0.3	J				0.06	0.06	U			
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	B	56.2	1.8				E	274	0.36				E							709	1.2				E
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	B	55.4	1.8				E	245	0.36				E							633	1.2				E
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	B	54.8	1.8				E	271	0.36				E							701	1.2				E
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	B	113	1.8				E	40.7	0.018				E							144	0.06				E
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	B	111	1.8				E	41.2	0.018				E	1.8	0.3		J+	FB	S	145	0.06				E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	B	104	1.8				E	37.2	0.018				E	1.9	0.3		J+	FB	S	132	0.06				E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	B	75.2	1.8				E	198	0.18	P6			E	2.2	0.3		J+	FB	S	534	0.6				E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	B	56.7	1.8				E	281	0.18				E	1.7	0.3		J+	FB	S	738	0.6				E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	B	56.5	1.8					252	0.18					1.6	0.3		J+	FB		665	0.6				
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	B	1.8	1.8	U				0.029	0.018	J				0.67	0.3	J				0.093	0.06	J			
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	B	54.1	1.8				E	271	0.18				E							700	0.6				E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	B	56.8	1.8				E	270	0.18				E							700	0.6				E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	B	56.1	1.8				E	292	0.18				E							755	0.6				E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	B	120	1.8				E	41.1	0.18				E							149	0.6				E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	B	117	1.8				E	43.3	0.018				E	1.9	0.3		J+	FB	S	153	0.06				E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	B	102	1.8				E	37.1	0.018				E	1.7	0.3		J+	FB	S	131	0.06				E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	B	101	1.8				E	216	0.18	P6,M1			E	2.9	0.3		J+	FB	S	582	0.6				E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	B	81.4	1.8				E	290	0.18				E	1.5	0.3		J+	FB	S	773	0.6				E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	B	82	1.8					290	0.18					1.3	0.3		J+	FB		770	0.6				
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	B	1.8	1.8	U				0.018	0.018	U				4.4	0.3					0.06	0.06	U			
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	B	81.9	1.8				E	313	0.18				E							813	0.6				E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	B	80	1.8				E	328	0.18				E							851	0.6				E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	B	78.9	1.8				E	320	0.18				E							827	0.6				E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	B	108	1.8				E	39.4	0.018				E							139	0.06				E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	B	105	1.8				E	38.4	0.018				E	1.6	0.3		J+	FB	S	135	0.06				E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	B	95.7	1.8				E	30.6	0.018				E	2	0.3		J+	FB	S	108	0.06				E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	B	79.2	1.8				E	227	0.18	P6			E	2.1	0.3		J+	FB	S	604	0.6				E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	B	65.3	1.8				E	263	0.18				E	1.5	0.3		J+	FB	S	695	0.6				E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	B	65.5	1.8					253	0.18					1.4	0.3		J+	FB		668	0.6				
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	B	1.8	1.8	U				0.018	0.018	U				0.64	0.3	J				0.064	0.06	J			
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	B	63.9	1.8				E	291	0.18				E							752	0.6				E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	B	62.9	1.8				E	276	0.18				E							714	0.6				E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	B	362	1.8		R	COM	R	272	0.18				E							702	0.6				E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	B	108	1.8				E	38.6	0.18				E							134	0.6				E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	B	108	1.8				E	43.9	0.18				E	1.6	0.3		J+	FB	S	151	0.6				E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	B	99.2	1.8				E	37.7	0.18				E	1.6	0.3		J+	FB	S	132	0.6				E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	B	75.6	1.8				E	208	0.091	P6			E	1.8	0.3				E	561	0.3				E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	B	65	1.8				E	254	0.18				E	1.5	0.3				E	676	0.6				E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	B	64.7	1.8					251	0.18					1.3	0.3					667	0.6				
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	B	1.8	1.8	U				0.018	0.018	U				0.3	0.3	U				0.06	0.06	U			
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	B	61.8	1.8				E	269	0.18				E							700	0.6				E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	B	62.1	1.8				E	276	0.18				E							719	0.6				E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	B	61.2	1.8				E	264	0.18				E							688	0.6				E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	B	107	1.8				E	43.9	0.18				E							157	0.6				E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	B	104	1.8				E	43.7	0.018				E	1.4	0.3				E	156	0.06				E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	B	94	1.8				E	35.6	0.018				E	1.8	0.3				E	127	0.06				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2c. BPSOU 2021 Normal Flow Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	MgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NH3-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NO3/NO2 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	P (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	B	9	0.0034				E	0.034	0.03	J			E	0.91	0.078				E	0.061	0.05	J			E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	B	10	0.0034				E	0.03	0.03	U			E	1.1	0.078				E	0.063	0.05	J			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	B	9.1	0.0034					0.035	0.03	J				1.1	0.078					0.05	0.05	U			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	B	0.0043	0.0034	J				0.03	0.03	U				0.078	0.078	J				0.05	0.05	U			
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	B	5.1	0.0034				E							1.2	0.078				E						
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	B	5.3	0.0034				E							0.87	0.078				E						
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	B	5	0.0034				E							0.89	0.078				E						
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	B	11.3	0.0034				E							1.5	0.078				E						
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	B	12.1	0.0034				E	0.036	0.03	J			E	1.7	0.078				E	0.11	0.05				E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	B	10.1	0.0034				E	0.03	0.03	U			E	1.5	0.078				E	0.082	0.05	J			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	B	9.2	0.0034				E	0.03	0.03	U			E	0.8	0.078				E	0.05	0.05	U			E
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	B	8.7	0.0034				E	0.03	0.03	U			E	0.87	0.078				E	0.05	0.05	U			E
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	B	9.3	0.0034					0.03	0.03	U				0.88	0.078					0.05	0.05	U			
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	B	0.0034	0.0034	U				0.03	0.03	U				0.078	0.078	U				0.05	0.05	U			
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	B	5.9	0.0034				E							0.77	0.078				E						
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	B	5.3	0.0034				E							0.78	0.078				E						
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	B	5.8	0.0034				E							0.79	0.078				E						
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	B	10.3	0.0034				E							1.1	0.078				E						
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	B	10.3	0.0034				E	0.03	0.03	U			E	1.3	0.078				E	0.1	0.05				E
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	B	9.5	0.0034				E	0.03	0.03	U			E	1.2	0.078				E	0.083	0.05	J			E
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	B	9.3	0.0034	P6			E	0.03	0.03	U			E	0.85	0.078				E	0.054	0.05	J			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	B	8.8	0.0034				E	0.03	0.03	U			E	1.1	0.078				E	0.05	0.05	U			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	B	8.7	0.0034					0.03	0.03	U				1.1	0.078					0.05	0.05	U			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	B	0.0051	0.0034	J				0.03	0.03	U				0.084	0.078	J				0.05	0.05	U			
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	B	5.4	0.0034				E							0.89	0.078				E						
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	B	6.2	0.0034				E							0.99	0.078				E						
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	B	6	0.0034				E							0.97	0.078				E						
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	B	11.4	0.0034				E							1.5	0.078				E						
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	B	10.9	0.0034				E	0.03	0.03	U			E	1.6	0.078				E	0.094	0.05	J			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	B	9.4	0.0034				E	0.03	0.03	U			E	1.3	0.078				E	0.075	0.05	J			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	B	10.6	0.0034				E	0.03	0.03	U,M1			E	0.9	0.078	B			E	0.05	0.05	U			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	B	11.7	0.0034				E	0.03	0.03	U			E	1.2	0.078				E	0.05	0.05	U			E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	B	11.1	0.0034					0.03	0.03	U				1.3	0.078					0.05	0.05	U			
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	B	0.0039	0.0034	J				0.03	0.03	U				0.11	0.078	J,B				0.05	0.05	U			
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	B	7.3	0.0034				E							1	0.078				E						
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	B	7.5	0.0034				E							1	0.078				E						
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	B	7.1	0.0034				E							1	0.078				E						
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	B	9.8	0.0034				E							1.2	0.078				E						
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	B	9.5	0.0034				E	0.03	0.03	U			E	1.3	0.078				E	0.05	0.05	U			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	B	7.6	0.0034				E	0.03	0.03	U			E	1.1	0.078				E	0.05	0.05	U			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	B	9	0.0034				E	0.03	0.03	U,B			E	0.97	0.078	M1	J-	MS	S	0.068	0.05	J,R1	J	FD	S
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	B	8.9	0.0034				E	0.03	0.03	U			E	1.2	0.078		J-	MS	S	0.2	0.05		J	FD	S
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	B	8.8	0.0034					0.036	0.03	J,B				1.3	0.078		J-	MS		0.05	0.05	U	UJ	FD	
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	B	0.0053	0.0034	J				0.03	0.03	U				0.078	0.078	U				0.05	0.05	U			
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	B	6.4	0.0034				E							0.97	0.078		J-	MS	S						
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	B	6.1	0.0034				E							0.94	0.078		J-	MS	S						
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	B	5.7	0.0034				E							1	0.078		J-	MS	S						
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	B	9.2	0.0034				E							1.5	0.078				E						
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	B	10	0.0034				E	0.03	0.03	U			E	1.7	0.078				E	0.084	0.05	J			E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	B	9.1	0.0034				E	0.038	0.03	J,B			E	1.5	0.078				E	0.079	0.05	J			E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	B	10.4	0.0034				E	0.03	0.03	U			E	1	0.078	M1	J-	MS	S	0.05	0.05	U			E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	B	10.1	0.0034				E	0.03	0.03	U			E	1.2	0.078		J-	MS	S	0.05	0.05	U			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	B	9.7	0.0034					0.03	0.03	U				1.2	0.078		J-	MS		0.05	0.05	U			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	B	0.0034	0.0034	U				0.03	0.03	U				0.078	0.078	U				0.05	0.05	U			
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	B	6.9	0.0034				E							0.97	0.078		J-	MS	S						
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	B	7	0.0034				E							1.1	0.078		J-	MS	S						
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	B	6.7	0.0034				E							1	0.078		J-	MS	S						
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	B	11.6	0.0034				E							1.5	0.078				E						
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	B	11.3	0.0034				E	0.03	0.03	U			E	1.6	0.078				E	0.086	0.05	J			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	B	9.3	0.0034				E	0.03	0.03	U			E	1.3	0.078				E	1	0.05				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A2c. BPSOU 2021 Normal Flow Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TDS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TKN (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10569157	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	B	473	30.2	M1			E	834	10				E	0.48	0.48	U			E	5	5	U			E
10569157	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	B	491	30.2				E	822	10				E	0.48	0.48	U			E	5	5	U			E
10569157	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	B	446	30.2					834	10					0.48	0.48	U				5	5	U			
10569157	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	B	1.2	1.2	U				5	5	U				0.48	0.48	U				5	5	U			
10569157	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	B	598	24.2				E	1000	25				E							5	5	U			E
10569157	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	B	569	24.2				E	1000	25				E							5	5	U			E
10569157	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	B	617	24.2				E	985	25				E							5	5	U			E
10569157	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	B	34.3	1.2				E	227	5				E							5	5	U			E
10569157	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	B	33.8	1.2				E	232	5				E	0.48	0.48	U			E	5	5	U			E
10569157	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	B	31.2	1.2				E	192	5				E	0.48	0.48	U			E	5	5	U			E
10573218	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	B	576	30.2				E	995	5		J	FD	S	1.2	0.48		J-	MS	S	5	5	U	UJ	FD	S
10573218	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	B	579	30.2				E	808	5		J	FD	S	0.48	0.48	U	UJ	MS	S	5	5	U	UJ	FD	S
10573218	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	B	578	30.2					1070	5		J	FD		0.48	0.48	U	UJ	MS		24.6	5		J	FD	
10573218	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	B	1.2	1.2	U				7	5	J				0.48	0.48	U,M1	UJ	MS		5	5	U			
10573218	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	B	646	30.2				E	1110	5		J	FD	S							5	5	U	UJ	FD	S
10573218	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	B	677	30.2				E	687	5		J	FD	S							5	5	U	UJ	FD	S
10573218	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	B	632	30.2				E	1120	5		J	FD	S							5	5	U	UJ	FD	S
10573218	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	B	37.8	2.4				E	240	5		J	FD	S							5	5	U	UJ	FD	S
10573218	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	B	36.7	2.4				E	236	5		J	FD	S	0.48	0.48	U	UJ	MS	S	5	5	U	UJ	FD	S
10573218	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	B	33	2.4				E	217	5		J	FD	S	0.48	0.48	U	UJ	MS	S	5	5	U	UJ	FD	S
10577494	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	B	690	24.2	H1	R	HT	R	1180	25				E	0.48	0.48	,R1,M	UJ	RPD	S	5	5	U			E
10577494	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	B	911	30.2				E	1310	25				E	0.48	0.48	U	UJ	MS	S	5.2	5	J			E
10577494	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	B	986	30.2					1320	25					0.48	0.48	U	UJ	MS		5	5	U			
10577494	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	B	1.2	1.2	U				5	5	U				0.48	0.48	U				5	5	U			
10577494	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	B	853	60.5				E	1240	25				E							5	5	U			E
10577494	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	B	741	60.5				E	1180	25				E							5	5	U			E
10577494	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	B	831	60.5	M1			E	1220	25				E							5	5	U			E
10577494	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	B	39.5	1.2				E	249	5				E							5	5	U			E
10577494	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	B	38.8	1.2				E	251	5				E	0.48	0.48	U			E	5	5	U			E
10577494	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	B	35.8	1.2				E	211	5				E	0.48	0.48	U			E	5	5	U			E
10584279	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	B	580	24.2				E	1030	5				E	0.55	0.48				E	5	5	U			E
10584279	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	B	793	30.2				E	1340	5				E	0.48	0.48	U			E	5	5	U			E
10584279	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	B	810	30.2					1340	5					0.65	0.48					5	5	U			
10584279	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	B	1.2	1.2	U				5	5	U				0.48	0.48	U				5	5	U			
10584279	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	B	839	30.2				E	1420	5				E							5	5	U			E
10584279	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	B	882	30.2				E	1430	5				E							5	5	U			E
10584279	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	B	869	30.2				E	1450	5				E							5	5	U			E
10584279	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	B	35	1.2				E	215	5				E							5	5	U			E
10584279	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	B	35.9	1.2				E	222	5				E	0.48	0.48	U			E	5	5	U			E
10584279	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	B	33.6	1.2				E	195	5				E	0.48	0.48	U			E	5	5	U			E
10585797	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	B	558	30.2	P6			E	1030	5				E	0.48	0.48	U			E	5	5	U			E
10585797	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	B	726	30.2	P6			E	1190	5				E	0.48	0.48	U			E	5	5	U			E
10585797	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	B	662	30.2					1180	5					0.48	0.48	U				5	5	U			
10585797	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	B	1.2	1.2	J				5	5	U				0.48	0.48	U				5	5	U			
10585797	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	B	688	30.2				E	1210	5				E							5	5	U			E
10585797	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	B	667	30.2				E	1210	5				E							5	5	U			E
10585797	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	B	690	30.2				E	1180	5				E							5	5	U			E
10585797	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	B	35.5	1.2				E	216	5				E							5	5	J			E
10585797	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	B	35	1.2				E	209	5				E	0.48	0.48	U			E	5	5	U			E
10585797	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	B	32.2	1.2				E	205	5				E	0.48	0.48	U			E	5.3	5	J			E
10590953	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	B	574	24.2	M1			E	964	5				E	0.5	0.48				E	5	5	U			E
10590953	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	B	609	24.2				E	1090	5				E	0.48	0.48	U			E	5	5	U			E
10590953	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	B	597	24.2					1070	5					0.48	0.48	U				5	5	U			
10590953	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	B	2.2	1.2	J				5	5	U				0.48	0.48	U				5	5	U			
10590953	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	B	628	24.2				E	1080	5				E							5	5	U			E
10590953	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	B	672	24.2				E	1090	5				E							5	5	U			E
10590953	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	B	674	24.2				E	1080	5				E							5	5	U			E
10590953	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	B	38.9	1.2				E	217	5				E							10.4	5				E
10590953	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	B	38.3	1.2				E	217	5				E	0.48	0.48	U			E	5	5	U			E
10590953	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	B	35.2	1.2				E	190	5				E	0.48	0.48	U			E	5	5	U			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	0.00011	0.000077	J			E	1.7	0.0071				E	0.0046	0.00014				E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	0.00023	0.000077	J			E	2.6	0.0071				E	0.005	0.00014				E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.000077	0.000077	U			E	0.19	0.0071				E	0.0028	0.00014				E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.000077	0.000077	U			E	0.32	0.0071				E	0.003	0.00014				E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	0.000078	0.000077	J			E	0.78	0.0071				E	0.0066	0.00014				E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	0.00012	0.000077	J			E	1.3	0.0071				E	0.0078	0.00014				E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	0.00017	0.000077	J			E	2.1	0.0071				E	0.0086	0.00014				E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	0.00013	0.000077	J			E	1.2	0.0071				E	0.0074	0.00014				E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	0.00011	0.000077	J				1.1	0.0071					0.008	0.00014				
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	0.000089	0.000077	J			E	1.1	0.0071				E	0.0074	0.00014				E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	0.00014	0.000077	J			E	1.3	0.0071				E	0.0073	0.00014				E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	0.00021	0.000077	J			E	1.8	0.0071				E	0.0094	0.00014				E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	0.00025	0.000077	J			E	1.2	0.0071				E	0.0072	0.00014				E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	0.00024	0.000077	J			E	1.5	0.0071				E	0.008	0.00014				E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	0.00013	0.000077	J			E	0.85	0.0071				E	0.006	0.00014				E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	0.00018	0.000077	J			E	1.1	0.0071				E	0.0058	0.00014				E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	0.000077	0.000077	U			E	0.5	0.0071				E	0.0052	0.00014				E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	0.000079	0.000077	J			E	1.5	0.0071				E	0.0044	0.00014				E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	0.00019	0.000077	J			E	3.5	0.0071				E	0.0065	0.00014				E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	0.00013	0.000077	J	J-	MS	S	0.73	0.0071				E	0.0035	0.00014				E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.00012	0.000077	J	J-	MS	S	0.09	0.0071				E	0.0024	0.00014				E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	0.000077	0.000077	U	R	MS	R	0.97	0.0071				E	0.0061	0.00014				E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	0.000077	0.000077	U	R	MS	R	1.2	0.0071				E	0.0058	0.00014				E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	0.00016	0.000077	J	J-	MS	S	2.7	0.0071				E	0.0077	0.00014				E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	0.000077	0.000077	U	R	MS	R	0.44	0.0071				E	0.0041	0.00014				E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.000077	0.000077	U,M1	R	MS	R	0.56	0.0071				E	0.0066	0.00014				E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	0.000077	0.000077	U	R	MS	R	1.3	0.0071				E	0.0089	0.00014				E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	0.000077	0.000077	U	R	MS	R	1.1	0.0071				E	0.0084	0.00014				E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.000077	0.000077	U	R	MS	R	0.18	0.0071				E	0.0053	0.00014				E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	0.000077	0.000077	U			E	1.6	0.0071				E	0.0083	0.00014				E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.000077	0.000077	U			E	0.21	0.0071				E	0.005	0.00014				E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.000077	0.000077	U			E	0.55	0.0071				E	0.0057	0.00014				E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	0.00015	0.000077	J			E	1.2	0.0071				E	0.0075	0.00014				E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	0.000077	0.000077	U			E	0.93	0.0071				E	0.0074	0.00014				E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	0.000077	0.000077	U			E	1.5	0.0071				E	0.0092	0.00014				E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	0.000077	0.000077	U			E	1.5	0.0071				E	0.011	0.00014				E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	0.000077	0.000077	U			E	0.86	0.0071				E	0.0069	0.00014				E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	0.000077	0.000077	U			E	0.95	0.0071				E	0.0072	0.00014				E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	0.000077	0.000077	U			E	0.71	0.0071				E	0.0068	0.00014				E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	0.00063	0.000077				E	0.84	0.0071				E	0.005	0.00014				E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	0.00017	0.000077	J			E	0.69	0.0071				E	0.0053	0.00014				E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	0.000077	0.000077	U				0.67	0.0071					0.0054	0.00014				
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	0.00038	0.00038	U			E	0.73	0.036				E	0.0041	0.0007				E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	0.00038	0.00038	U			E	1.3	0.036				E	0.0042	0.0007				E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	0.00038	0.00038	U			E	2.9	0.036				E	0.006	0.0007				E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	0.00038	0.00038	U			E	2.9	0.036				E	0.0058	0.0007				E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	0.00038	0.00038	U				2.8	0.036					0.006	0.0007				
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.00038	0.00038	U				0.036	0.036	U				0.0007	0.0007	U			
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	0.00038	0.00038	U			E	0.66	0.036				E	0.0055	0.0007				E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	0.00038	0.00038	U			E	1.2	0.036				E	0.0059	0.0007				E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	0.00038	0.00038	U			E	1	0.036				E	0.0055	0.0007				E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.00013	0.000077	J			E	0.53	0.0071				E	0.0053	0.00014				E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	0.00038	0.00038	U			E	0.74	0.036				E	0.0054	0.0007				E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	0.00038	0.00038	U			E	0.9	0.036				E	0.0049	0.0007				E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	0.00038	0.00038	U			E	0.78	0.036				E	0.0055	0.0007				E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.00013	0.000077	J			E	0.5	0.0071				E	0.0053	0.00014				E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	0.000077	0.000077	U			E	0.62	0.0071				E	0.005	0.00014				E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.00038	0.00038	U			E	0.71	0.036				E	0.0043	0.0007				E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	0.00038	0.00038	U			E	0.68	0.036				E	0.0046	0.0007				E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	0.00038	0.00038	U			E	0.72	0.036				E	0.0056	0.0007				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	0.00011	0.00003				E	0.028	0.00043				E	2	0.012				E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	0.00013	0.00003				E	0.035	0.00043				E	2.9	0.012				E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.00003	0.00003	U			E	0.006	0.00043				E	0.6	0.012				E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.00003	0.00003	U			E	0.0069	0.00043				E	0.78	0.012				E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	0.00013	0.00003				E	0.041	0.00043				E	1.1	0.012				E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	0.00021	0.00003				E	0.032	0.00043				E	1.7	0.012				E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	0.00024	0.00003				E	0.042	0.00043				E	2.6	0.012				E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	0.00024	0.00003				E	0.032	0.00043				E	1.8	0.012				E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	0.00024	0.00003					0.031	0.00043					1.8	0.012				
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	0.00014	0.00003				E	0.028	0.00043				E	1.4	0.012				E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	0.00018	0.00003				E	0.032	0.00043				E	1.7	0.012				E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	0.00028	0.00003				E	0.046	0.00043				E	2.7	0.012				E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	0.00022	0.00003				E	0.028	0.00043				E	1.7	0.012				E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	0.00025	0.00003				E	0.038	0.00043				E	2.2	0.012				E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	0.00023	0.00003				E	0.024	0.00043				E	1.3	0.012				E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	0.0002	0.00003				E	0.027	0.00043				E	1.5	0.012				E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	0.00014	0.00003				E	0.021	0.00043				E	1.1	0.012				E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	0.000092	0.00003				E	0.025	0.00043				E	1.8	0.012				E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	0.00021	0.00003				E	0.056	0.00043				E	4	0.012				E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	0.000071	0.00003	J			E	0.014	0.00043				E	1.2	0.012				E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.00003	0.00003	U			E	0.0047	0.00043				E	0.46	0.012				E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	0.000074	0.00003	J			E	0.028	0.00043				E	1.5	0.012				E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	0.000084	0.00003				E	0.021	0.00043				E	1.7	0.012				E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	0.00017	0.00003				E	0.038	0.00043				E	3.9	0.012				E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	0.000066	0.00003	J			E	0.0096	0.00043				E	1.1	0.012				E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.000059	0.00003	J			E	0.012	0.00043				E	0.84	0.012				E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	0.00018	0.00003				E	0.029	0.00043				E	2.3	0.012				E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	0.00017	0.00003				E	0.024	0.00043				E	2.3	0.012				E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.000062	0.00003	J			E	0.0077	0.00043				E	0.73	0.012				E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	0.00021	0.00003				E	0.033	0.00043				E	2.1	0.012				E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.00012	0.00003				E	0.0087	0.00043				E	0.5	0.012				E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.00021	0.00003				E	0.02	0.00043				E	0.94	0.012				E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	0.00032	0.00003				E	0.034	0.00043				E	1.7	0.012				E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	0.0002	0.00003				E	0.027	0.00043				E	1.3	0.012				E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	0.00025	0.00003				E	0.041	0.00043				E	2.1	0.012				E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	0.00037	0.00003				E	0.046	0.00043				E	2.5	0.012				E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	0.00027	0.00003				E	0.027	0.00043				E	1.4	0.012				E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	0.00021	0.00003				E	0.029	0.00043				E	1.6	0.012				E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	0.00023	0.00003				E	0.025	0.00043				E	1.4	0.012				E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	0.0002	0.00003				E	0.022	0.00043				E	1.2	0.012				E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	0.00016	0.00003				E	0.022	0.00043				E	1.3	0.012				E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	0.00016	0.00003					0.022	0.00043					1.3	0.012				
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	0.00021	0.00015	J			E	0.021	0.0021				E	1.4	0.06				E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	0.00015	0.00015	U			E	0.016	0.0021				E	1.8	0.06				E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	0.00022	0.00015	J			E	0.044	0.0021				E	3.7	0.06				E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	0.0002	0.00015	J			E	0.04	0.0021				E	3.5	0.06				E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	0.00022	0.00015	J				0.04	0.0021					3.6	0.06				
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.00015	0.00015	U				0.0021	0.0021	U				0.06	0.06	U			
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	0.00015	0.00015	U			E	0.023	0.0021				E	1	0.06				E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	0.00016	0.00015	J			E	0.031	0.0021				E	1.4	0.06				E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	0.00015	0.00015	J			E	0.023	0.0021				E	1.3	0.06				E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.00016	0.00003				E	0.017	0.00043				E	0.91	0.012				E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	0.00015	0.00015	U			E	0.023	0.0021				E	1.1	0.06				E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	0.00016	0.00015	J			E	0.02	0.0021				E	1.1	0.06				E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	0.00017	0.00015	J			E	0.019	0.0021				E	1.2	0.06				E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.00019	0.00003				E	0.014	0.00043				E	0.87	0.012				E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	0.00013	0.00003				E	0.02	0.00043				E	1	0.012				E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.00015	0.00015	U			E	0.019	0.0021				E	0.94	0.06				E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	0.00015	0.00015	U			E	0.017	0.0021				E	1	0.06				E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	0.00018	0.00015	J			E	0.02	0.0021				E	1.3	0.06				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	0.000045	0.000045	U			E	0.0038	0.000081				E	0.0073	0.000043				E	0.041	0.0023				E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	0.000045	0.000045	U			E	0.0043	0.000081				E	0.01	0.000043				E	0.064	0.0023				E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.000045	0.000045	U			E	0.0045	0.000081				E	0.00076	0.000043				E	0.0079	0.0023				E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.0011	0.000043				E	0.012	0.0023				E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	0.000045	0.000045	U			E	0.32	0.000081				E	0.0074	0.000043				E	0.058	0.0023				E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	0.00006	0.000045	J			E	0.27	0.000081				E	0.012	0.000043				E	0.064	0.0023				E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	0.000045	0.000045	U			E	0.25	0.000081				E	0.015	0.000043				E	0.085	0.0023				E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	0.000045	0.000045	U			E	0.22	0.000081				E	0.011	0.000043				E	0.091	0.0023				E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	0.000045	0.000045	U				0.23	0.000081					0.012	0.000043					0.094	0.0023				
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.00005	0.000043	J				0.0023	0.0023	U			
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	0.000045	0.000045	U			E	0.31	0.000081				E	0.0098	0.000043				E	0.058	0.0023				E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	0.000045	0.000045	U			E	0.27	0.000081				E	0.011	0.000043				E	0.064	0.0023				E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	0.000045	0.000045	U			E	0.27	0.000081				E	0.016	0.000043				E	0.091	0.0023				E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	0.000045	0.000045	U			E	0.2	0.000081				E	0.013	0.000043				E	0.1	0.0023				E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	0.000045	0.000045	U			E	0.21	0.000081				E	0.012	0.000043				E	0.089	0.0023				E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	0.000045	0.000045	U			E	0.15	0.000081				E	0.01	0.000043				E	0.075	0.0023				E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	0.000045	0.000045	U			E	0.2	0.000081				E	0.016	0.000043				E	0.093	0.0023				E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	0.000045	0.000045	U			E	0.18	0.000081				E	0.0053	0.000043				E	0.06	0.0023				E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	0.000045	0.000045	U			E	0.0037	0.000081				E	0.0065	0.000043				E	0.037	0.0023				E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	0.000045	0.000045	U			E	0.0048	0.000081				E	0.015	0.000043				E	0.093	0.0023				E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	0.000045	0.000045	U			E	0.0043	0.000081				E	0.0032	0.000043				E	0.027	0.0023				E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.000045	0.000045	U			E	0.0041	0.000081				E	0.0005	0.000043				E	0.01	0.0023				E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	0.000045	0.000045	U			E	0.0049	0.000081				E	0.0056	0.000043				E	0.037	0.0023				E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	0.000045	0.000045	U			E	0.0043	0.000081				E	0.0064	0.000043				E	0.037	0.0023				E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	0.00005	0.000045	J			E	0.0047	0.000081				E	0.011	0.000043				E	0.071	0.0023				E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	0.000045	0.000045	U			E	0.0053	0.000081				E	0.0022	0.000043				E	0.057	0.0023				E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.0034	0.000043				E	0.027	0.0023				E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	0.000045	0.000045	U			E	0.0035	0.000081				E	0.0095	0.000043				E	0.069	0.0023				E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	0.000045	0.000045	U			E	0.0043	0.000081				E	0.0076	0.000043				E	0.057	0.0023				E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.000045	0.000045	U			E	0.0049	0.000081				E	0.0017	0.000043				E	0.02	0.0023				E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	0.000045	0.000045	U			E	0.3	0.000081				E	0.013	0.000043				E	0.076	0.0023				E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.000045	0.000045	U			E	0.28	0.000081				E	0.0023	0.000043				E	0.03	0.0023				E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.000045	0.000045	U			E	0.28	0.000081				E	0.014	0.000043				E	0.062	0.0023				E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	0.000045	0.000045	U			E	0.28	0.000081				E	0.03	0.000043				E	0.11	0.0023				E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	0.000045	0.000045	U			E	0.32	0.000081				E	0.0085	0.000043				E	0.055	0.0023				E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	0.00006	0.000045	J			E	0.29	0.000081				E	0.015	0.000043				E	0.084	0.0023				E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	0.00005	0.000045	J			E	0.28	0.000081				E	0.017	0.000043				E	0.099	0.0023				E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	0.000045	0.000045	U			E	0.2	0.000081				E	0.015	0.000043				E	0.088	0.0023				E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	0.000045	0.000045	U			E	0.21	0.000081				E	0.011	0.000043				E	0.077	0.0023				E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	0.000045	0.000045	U			E	0.18	0.000081				E	0.0098	0.000043				E	0.074	0.0023				E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	0.000045	0.000045	U			E	0.17	0.000081				E	0.013	0.000043				E	0.071	0.0023				E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	0.000045	0.000045	U			E	0.18	0.000081				E	0.0074	0.000043				E	0.073	0.0023				E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	0.000045	0.000045	U				0.18	0.000081					0.0075	0.000043					0.073	0.0023				
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000051	0.000043	J				0.0023	0.0023	U			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	0.000045	0.000045	U			E	0.0045	0.0004				E	0.0029	0.00022				E	0.031	0.011				E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	0.000045	0.000045	U			E	0.0044	0.0004				E	0.0041	0.00022				E	0.034	0.011				E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	0.000045	0.000045	U			E	0.0045	0.0004				E	0.013	0.00022				E	0.08	0.011				E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	0.000045	0.000045	U			E	0.0039	0.0004				E	0.013	0.00022				E	0.072	0.011				E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	0.000045	0.000045	U				0.0039	0.0004					0.014	0.00022					0.074	0.011				
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.000045	0.000045	U				0.0004	0.0004	U				0.00022	0.00022	U				0.011	0.011	U			
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	0.000045	0.000045	U			E	0.086	0.0004				E	0.0053	0.00022				E	0.037	0.011				E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	0.000045	0.000045	U			E	0.24	0.0004				E	0.0074	0.00022				E	0.052	0.011				E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	0.000045	0.000045	U			E	0.4	0.0004				E	0.0062	0.00022				E	0.045	0.011				E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.000045	0.000045	U			E	0.41	0.0016	P6			E	0.0049	0.000043				E	0.032	0.0023				E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	0.000045	0.000045	U			E	0.069	0.0004				E	0.006	0.00022				E	0.039	0.011				E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	0.000045	0.000045	U			E	0.3	0.0004				E	0.0056	0.00022				E	0.042	0.011				E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	0.000045	0.000045	U			E	0.42	0.0004				E	0.0058	0.00022				E	0.042	0.011				E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.000045	0.000045	U			E	0.44	0.000081				E	0.0048	0.000043				E	0.041	0.0023				E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	0.000045	0.000045	U			E	0.059	0.000081				E	0.0054	0.000043				E	0.051	0.0023				E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.000045	0.000045	U			E	0.22	0.0004				E	0.0049	0.00022				E	0.052	0.011				E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	0.000045	0.000045	U			E	0.33	0.0004				E	0.0049	0.00022				E	0.044	0.011				E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	0.000045	0.000045	U			E	0.31	0.0004				E	0.0064	0.00022				E	0.062	0.011				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	0.00038	0.00038	U			E	2.9	0.036				E	0.0061	0.0007				E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	0.00038	0.00038	U			E	1.7	0.036				E	0.0047	0.0007				E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	0.00015	0.000077	J			E	0.98	0.0071				E	0.0042	0.00014				E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	0.0002	0.000077	J			E	1.9	0.0071				E	0.0055	0.00014				E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.000077	0.000077	U			E	0.31	0.0071				E	0.0038	0.00014				E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.000077	0.000077	U			E	0.51	0.0071				E	0.0039	0.00014				E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	0.00012	0.000077	J			E	1.9	0.0071				E	0.0055	0.00014				E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	0.00016	0.000077	J			E	3.2	0.0071				E	0.0066	0.00014				E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.000077	0.000077	U			E	0.3	0.0071				E	0.0045	0.00014				E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	0.000077	0.000077	U			E	0.64	0.0071				E	0.0052	0.00014				E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	0.0001	0.000077	J			E	1.7	0.0071				E	0.006	0.00014				E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	0.000077	0.000077	U			E	1.1	0.0071				E	0.006	0.00014				E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	0.000077	0.000077	U			E	0.76	0.0071				E	0.0054	0.00014				E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	0.00018	0.000077	J			E	1.2	0.0071				E	0.0057	0.00014				E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.000079	0.000077	J			E	0.68	0.0071				E	0.0051	0.00014				E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.000077	0.000077	U			E	0.23	0.0071				E	0.0044	0.00014				E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	0.000077	0.000077	U			E	1	0.0071				E	0.0059	0.00014				E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.000077	0.000077	U			E	0.54	0.0071				E	0.0053	0.00014				E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	0.000094	0.000077	J			E	0.99	0.0071				E	0.0058	0.00014				E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	0.000077	0.000077	U			E	0.85	0.0071				E	0.0055	0.00014				E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	0.000077	0.000077	U				0.79	0.0071					0.005	0.00014				
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.00013	0.000077	J			E	0.45	0.0071				E	0.0047	0.00014				E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.000077	0.000077	U			E	0.59	0.0071				E	0.0044	0.00014				E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	0.000077	0.000077	U			E	0.81	0.0071				E	0.0051	0.00014				E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.000077	0.000077	U			E	0.4	0.0071				E	0.0046	0.00014				E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.000077	0.000077	U			E	0.27	0.0071				E	0.0032	0.00014				E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.000077	0.000077	U			E	0.25	0.0071				E	0.0039	0.00014				E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	0.000092	0.000077	J			E	1.6	0.0071				E	0.005	0.00014				E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	0.00018	0.000077	J			E	3.6	0.0071				E	0.0064	0.00014				E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.000077	0.000077	U			E	0.53	0.0071		J	FD	S	0.0046	0.00014				E
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.000077	0.000077	U			E	0.54	0.0071		J	FD	S	0.0047	0.00014				E
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	0.00013	0.000077	J			E	1.1	0.0071		J	FD	S	0.0064	0.00014				E
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	0.00018	0.000077	J			E	1.4	0.0071		J	FD	S	0.0079	0.00014				E
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.000077	0.000077	U			E	0.5	0.0071		J	FD	S	0.0047	0.00014				E
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.000077	0.000077	U			E	0.66	0.0071		J	FD	S	0.0051	0.00014				E
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	0.00019	0.000077	J			E	1.5	0.0071		J	FD	S	0.0074	0.00014				E
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.000077	0.000077	U			E	0.44	0.0071		J	FD	S	0.0054	0.00014				E
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.000077	0.000077	U				0.32	0.0071		J	FD		0.0046	0.00014				
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.000077	0.000077	U			E	0.38	0.0071		J	FD	S	0.0036	0.00014				E
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.000077	0.000077	U			E	0.38	0.0071		J	FD	S	0.0035	0.00014				E
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	0.00011	0.000077	J			E	0.75	0.0071		J	FD	S	0.005	0.00014				E
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.000077	0.000077	U			E	0.24	0.0071		J	FD	S	0.0037	0.00014				E
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.000077	0.000077	U			E	0.22	0.0071				E	0.0029	0.00014				E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.000077	0.000077	U			E	0.22	0.0071				E	0.0036	0.00014				E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.00018	0.000077	J			E	0.72	0.0071				E	0.0043	0.00014				E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	0.00028	0.000077	J			E	2.5	0.0071				E	0.0058	0.00014				E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.000077	0.000077	U			E	0.25	0.0071				E	0.004	0.00014				E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	0.000082	0.000077	J			E	0.9	0.0071				E	0.0048	0.00014				E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	0.00013	0.000077	J			E	1.9	0.0071				E	0.0062	0.00014				E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.000077	0.000077	U			E	0.22	0.0071				E	0.0032	0.00014				E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.000077	0.000077	U			E	0.32	0.0071				E	0.005	0.00014				E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	0.000077	0.000077	U			E	0.85	0.0071				E	0.0054	0.00014				E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.000077	0.000077	U			E	0.6	0.0071				E	0.0045	0.00014				E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.000077	0.000077	U			E	0.19	0.0071				E	0.0042	0.00014				E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.000077	0.000077	U			E	0.24	0.0071				E	0.0032	0.00014				E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.000077	0.000077	U			E	0.05	0.0071				E	0.0028	0.00014				E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.00016	0.00016	U,1M	UJ	MS	S	0.16	0.008	1M	J	MS	S	0.0033	0.000083	1M	J	MS	S
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	0.00091	0.000077				E	4.4	0.0071				E	0.018	0.00014				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	0.00024	0.00015	J			E	0.049	0.0021				E	4	0.06				E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	0.00016	0.00015	J			E	0.033	0.0021				E	2.4	0.06				E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	0.0001	0.00003				E	0.017	0.00043				E	1.9	0.012				E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	0.00019	0.00003				E	0.028	0.00043				E	2.9	0.012				E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.000056	0.00003	J			E	0.0093	0.00043				E	0.75	0.012				E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.000055	0.00003	J			E	0.012	0.00043				E	0.93	0.012				E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	0.00014	0.00003				E	0.035	0.00043				E	2.5	0.012				E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	0.00018	0.00003				E	0.047	0.00043				E	3.9	0.012				E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.000052	0.00003	J			E	0.009	0.00043				E	0.77	0.012				E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	0.000082	0.00003				E	0.015	0.00043				E	1.3	0.012				E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	0.00013	0.00003				E	0.031	0.00043				E	2.3	0.012				E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	0.00024	0.00003				E	0.022	0.00043				E	2	0.012				E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	0.00012	0.00003				E	0.022	0.00043				E	1.3	0.012				E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	0.00017	0.00003				E	0.025	0.00043				E	1.5	0.012				E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.00013	0.00003				E	0.015	0.00043				E	0.97	0.012				E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.000078	0.00003	J			E	0.0076	0.00043				E	0.5	0.012				E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	0.00016	0.00003				E	0.024	0.00043				E	1.5	0.012				E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.00011	0.00003				E	0.016	0.00043				E	0.97	0.012				E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	0.00015	0.00003				E	0.02	0.00043				E	1.4	0.012				E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	0.00012	0.00003				E	0.017	0.00043				E	1.3	0.012				E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	0.00012	0.00003					0.016	0.00043					1.1	0.012				
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.00013	0.00003				E	0.018	0.00043				E	0.82	0.012				E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.00012	0.00003				E	0.018	0.00043				E	0.85	0.012				E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	0.00015	0.00003				E	0.019	0.00043				E	1.2	0.012				E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.00013	0.00003				E	0.014	0.00043				E	0.74	0.012				E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.000037	0.00003	J			E	0.01	0.00043				E	0.48	0.012				E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.00012	0.00003				E	0.009	0.00043				E	0.47	0.012				E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	0.0001	0.00003				E	0.035	0.00043				E	1.9	0.012				E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	0.00021	0.00003				E	0.058	0.00043				E	4.2	0.012				E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.00014	0.00003				E	0.018	0.00043		J	FD	S	0.8	0.012		J	FD	S
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.00015	0.00003				E	0.019	0.00043		J	FD	S	0.79	0.012		J	FD	S
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	0.00025	0.00003				E	0.032	0.00043		J	FD	S	1.5	0.012		J	FD	S
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	0.0003	0.00003				E	0.046	0.00043		J	FD	S	1.9	0.012		J	FD	S
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.00016	0.00003				E	0.018	0.00043		J	FD	S	0.86	0.012		J	FD	S
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.00018	0.00003				E	0.02	0.00043		J	FD	S	0.93	0.012		J	FD	S
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	0.0003	0.00003				E	0.039	0.00043		J	FD	S	1.9	0.012		J	FD	S
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.0002	0.00003				E	0.023	0.00043		J	FD	S	0.8	0.012		J	FD	S
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.00012	0.00003					0.018	0.00043		J	FD		0.63	0.012		J	FD	
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.017	0.012	J			
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.00014	0.00003				E	0.014	0.00043		J	FD	S	0.61	0.012		J	FD	S
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.00012	0.00003				E	0.013	0.00043		J	FD	S	0.54	0.012		J	FD	S
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	0.00019	0.00003				E	0.026	0.00043		J	FD	S	1.1	0.012		J	FD	S
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.00011	0.00003				E	0.013	0.00043		J	FD	S	0.5	0.012		J	FD	S
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.00003	0.00003	U			E	0.009	0.00043				E	0.4	0.012				E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.000045	0.00003	J			E	0.013	0.00043				E	0.47	0.012				E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.000074	0.00003	J			E	0.017	0.00043				E	0.93	0.012				E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	0.0002	0.00003				E	0.049	0.00043				E	3	0.012				E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.000056	0.00003	J			E	0.01	0.00043				E	0.45	0.012				E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	0.000089	0.00003				E	0.023	0.00043				E	1.2	0.012				E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	0.00015	0.00003				E	0.039	0.00043				E	2.5	0.012				E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.000057	0.00003	J			E	0.0082	0.00043				E	0.56	0.012				E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.000054	0.00003	J			E	0.013	0.00043				E	0.55	0.012				E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	0.000089	0.00003				E	0.022	0.00043				E	1.2	0.012				E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.000068	0.00003	J			E	0.019	0.00043				E	0.91	0.012				E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.000059	0.00003	J			E	0.0077	0.00043				E	0.6	0.012				E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.00003	0.00003	U			E	0.0091	0.00043				E	0.4	0.012				E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.00003	0.00003	U			E	0.0038	0.00043				E	0.13	0.012				E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.000032	0.000016	J,1M	J	MS	S	0.0066	0.0005	1M	J	MS	S	0.21	0.012	1M	J	MS	S
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	0.00086	0.00003				E	0.18	0.00043				E	5.8	0.012				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	0.000045	0.000045	U			E	0.0052	0.0004				E	0.011	0.00022				E	0.25	0.011				E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	0.000045	0.000045	U			E	0.004	0.0004				E	0.0062	0.00022				E	0.056	0.011				E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.0043	0.000043				E	0.029	0.0023				E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	0.000045	0.000045	U			E	0.0044	0.000081				E	0.0093	0.000043				E	0.054	0.0023				E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.000045	0.000045	U			E	0.0052	0.000081				E	0.0018	0.000043				E	0.013	0.0023				E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.000045	0.000045	U			E	0.0049	0.000081				E	0.0027	0.000043				E	0.018	0.0023				E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	0.000045	0.000045	U			E	0.0053	0.000081				E	0.0093	0.000043				E	0.053	0.0023				E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	0.000045	0.000045	U			E	0.0054	0.000081				E	0.014	0.000043				E	0.082	0.0023				E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.000045	0.000045	U			E	0.0051	0.000081				E	0.0019	0.000043				E	0.015	0.0023				E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	0.000045	0.000045	U			E	0.0051	0.000081				E	0.0036	0.000043				E	0.027	0.0023				E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	0.000045	0.000045	U			E	0.0051	0.000081				E	0.0088	0.000043				E	0.052	0.0023				E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	0.000045	0.000045	U			E	0.0061	0.000081				E	0.0064	0.000043				E	0.044	0.0023				E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	0.000045	0.000045	U			E	0.054	0.000081				E	0.0067	0.000043				E	0.037	0.0023				E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	0.000045	0.000045	U			E	0.26	0.000081				E	0.0079	0.000043				E	0.049	0.0023				E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.000045	0.000045	U			E	0.54	0.00081				E	0.0041	0.000043				E	0.031	0.0023				E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.000045	0.000045	U			E	0.46	0.00081				E	0.0019	0.000043				E	0.02	0.0023				E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	0.000045	0.000045	U			E	0.46	0.00081				E	0.0068	0.000043				E	0.048	0.0023				E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.000045	0.000045	U			E	0.44	0.00081				E	0.005	0.000043				E	0.031	0.0023				E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	0.000045	0.000045	U			E	0.42	0.00081				E	0.011	0.000043				E	0.058	0.0023				E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	0.000045	0.000045	U			E	0.42	0.00081				E	0.0058	0.000043				E	0.043	0.0023				E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	0.000045	0.000045	U				0.44	0.000081					0.0054	0.000043					0.039	0.0023				
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.000045	0.000045	U				0.00017	0.000081	J				0.000074	0.000043	J,B				0.0023	0.0023	U			
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.000045	0.000045	U			E	0.083	0.000081				E	0.0044	0.000043				E	0.049	0.0023				E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.000045	0.000045	U			E	0.15	0.000081				E	0.0047	0.000043				E	0.05	0.0023				E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	0.000045	0.000045	U			E	0.33	0.000081				E	0.0056	0.000043				E	0.051	0.0023				E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.000045	0.000045	U			E	0.36	0.000081				E	0.0038	0.000043				E	0.038	0.0023				E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.000045	0.000045	U			E	0.0049	0.000081				E	0.0012	0.000043				E	0.012	0.0023				E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.000045	0.000045	U			E	0.0049	0.000081				E	0.0013	0.000043				E	0.01	0.0023				E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	0.000045	0.000045	U			E	0.0047	0.000081				E	0.0076	0.000043				E	0.048	0.0023				E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	0.000045	0.000045	U			E	0.005	0.000081				E	0.014	0.000043				E	0.1	0.0023				E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.000045	0.000045	U			E	0.37	0.000081				E	0.0063	0.000043		J	FD	S	0.042	0.0023		J	FD	S
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.000045	0.000045	U			E	0.36	0.000081				E	0.0078	0.000043		J	FD	S	0.041	0.0023		J	FD	S
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	0.000045	0.000045	U			E	0.35	0.000081				E	0.017	0.000043		J	FD	S	0.078	0.0023		J	FD	S
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	0.000045	0.000045	U			E	0.35	0.000081				E	0.021	0.000043		J	FD	S	0.095	0.0023		J	FD	S
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.000045	0.000045	U			E	0.37	0.000081				E	0.0069	0.000043		J	FD	S	0.04	0.0023		J	FD	S
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.000045	0.000045	U			E	0.4	0.000081				E	0.0095	0.000043		J	FD	S	0.049	0.0023		J	FD	S
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	0.000045	0.000045	U			E	0.33	0.000081				E	0.023	0.000043		J	FD	S	0.1	0.0023		J	FD	S
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.000045	0.000045	U			E	0.51	0.0004				E	0.0044	0.000043		J	FD	S	0.043	0.0023		J	FD	S
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.000045	0.000045	U				0.43	0.000081					0.0034	0.000043		J	FD		0.032	0.0023		J	FD	
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000063	0.000043	J				0.0023	0.0023	U			
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.000045	0.000045	U			E	0.24	0.000081				E	0.0055	0.000043		J	FD	S	0.053	0.0023		J	FD	S
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.000045	0.000045	U			E	0.26	0.000081				E	0.0059	0.000043		J	FD	S	0.056	0.0023		J	FD	S
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	0.000045	0.000045	U			E	0.2	0.000081				E	0.013	0.000043		J	FD	S	0.086	0.0023		J	FD	S
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.000045	0.000045	U			E	0.35	0.000081				E	0.0029	0.000043		J	FD	S	0.046	0.0023		J	FD	S
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.000045	0.000045	U			E	0.0048	0.000081				E	0.001	0.000043				E	0.01	0.0023				E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.000045	0.000045	U			E	0.005	0.000081				E	0.0014	0.000043				E	0.012	0.0023				E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.000045	0.000045	U			E	0.0046	0.000081				E	0.0033	0.000043				E	0.023	0.0023				E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	0.000045	0.000045	U			E	0.0049	0.000081				E	0.011	0.000043				E	0.08	0.0023				E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.000045	0.000045	U			E	0.0058	0.000081				E	0.0016	0.000043				E	0.016	0.0023				E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	0.000045	0.000045	U			E	0.0056	0.000081				E	0.0044	0.000043				E	0.036	0.0023				E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	0.000045	0.000045	U			E	0.0059	0.000081				E	0.0089	0.000043				E	0.064	0.0023				E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.000045	0.000045	U			E	0.0061	0.000081				E	0.0011	0.000043				E	0.011	0.0023				E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.000045	0.000045	U			E	0.0059	0.000081				E	0.002	0.000043				E	0.02	0.0023				E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	0.000045	0.000045	U			E	0.0055	0.000081				E	0.0046	0.000043				E	0.035	0.0023				E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.000045	0.000045	U			E	0.0055	0.000081				E	0.0032	0.000043				E	0.028	0.0023				E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.000045	0.000045	U			E	0.0068	0.000081				E	0.0015	0.000043				E	0.013	0.0023				E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.000045	0.000045	U			E	0.43	0.000081				E	0.0018	0.000043				E	0.017	0.0023				E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.000045	0.000045	U			E	0.42	0.000081				E	0.00088	0.000043				E	0.012	0.0023				E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.000045	0.000045	U			E	0.45	0.00094	1M	J	MS	S	0.0025	0.000028	1M	J	MS	S	0.027	0.002	1M	J	MS	S
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	0.000045	0.000045	U			E	0.4	0.000081				E	0.1	0.000043				E	0.32	0.0023				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	0.00015	0.000077	J			E	0.86	0.0071				E	0.0058	0.00014				E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.000077	0.000077	U			E	0.073	0.0071				E	0.003	0.00014				E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	0.00037	0.000077	J			E	2.4	0.0071				E	0.0089	0.00014				E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	0.00011	0.000077	J			E	0.81	0.0071				E	0.0074	0.00014				E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.000077	0.000077	U			E	0.25	0.0071		J	FD	S	0.0033	0.00014		J	FD	S
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.000077	0.000077	U			E	0.31	0.0071		J	FD	S	0.0036	0.00014		J	FD	S
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.000077	0.000077	U			E	0.086	0.0071		J	FD	S	0.0027	0.00014		J	FD	S
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.000077	0.000077	U			E	0.62	0.0071		J	FD	S	0.0049	0.00014		J	FD	S
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.000077	0.000077	U				0.2	0.0071		J	FD		0.0039	0.00014		J	FD	
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	0.00027	0.00016	J			E	2.1	0.008				E	0.0072	0.000083				E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	0.00023	0.00016	J			E	3.2	0.008				E	0.0081	0.000083				E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	0.0011	0.00016				E	20.3	0.008				E	0.024	0.000083				E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	0.0022	0.00016				E	44.3	0.008				E	0.05	0.000083				E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	0.00032	0.00016	J			E	2.3	0.008				E	0.01	0.000083				E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	0.00043	0.00016	J			E	2.4	0.008				E	0.0097	0.000083				E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	0.0024	0.00016				E	9.9	0.008				E	0.027	0.000083				E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	0.0062	0.00016				E	26	0.008				E	0.069	0.000083				E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	0.00033	0.00016	J			E	1.4	0.008				E	0.0091	0.000083				E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	0.00037	0.00016	J			E	2.1	0.008				E	0.0095	0.000083				E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	0.0037	0.00016				E	15.7	0.008				E	0.041	0.000083				E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	0.00068	0.00016				E	5.5	0.008				E	0.026	0.000083				E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	0.00075	0.00016					5.4	0.008					0.025	0.000083				
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.00016	0.00016	U				0.008	0.008	U				8.3E-05	0.000083	U			
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.00016	0.00016	U			E	0.44	0.008				E	0.0047	0.000083				E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	0.00021	0.00016	J			E	1.2	0.008				E	0.0055	0.000083				E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	0.0027	0.00016				E	10.8	0.008				E	0.027	0.000083				E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	0.00024	0.00016	J			E	1.9	0.008				E	0.012	0.000083				E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.00016	0.00016	U			E	0.74	0.008				E	0.0053	0.000083				E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	0.00016	0.00016	U			E	0.92	0.008				E	0.005	0.000083				E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	0.00016	0.00016	U			E	2.4	0.0071				E	0.008	0.00014				E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	0.0012	0.00016				E	20	0.0071				E	0.026	0.00014				E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	0.0014	0.00016					21.3	0.0071					0.029	0.00014				
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	0.00016	0.00016	U			E	1.9	0.0071				E	0.0071	0.00014				E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	0.00025	0.00016	J			E	4.1	0.0071				E	0.0091	0.00014				E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	0.00072	0.00016				E	10.8	0.0071				E	0.018	0.00014				E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	0.0003	0.00016	J			E	4.1	0.0071				E	0.014	0.00014				E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	0.00039	0.00016	J			E	6.2	0.0071				E	0.013	0.00014				E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.000077	0.000077	U			E	0.36	0.0071				E	0.0052	0.00014				E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.00016	0.00016	U			E	0.15	0.0071				E	0.005	0.00014				E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.000077	0.000077	U			E	0.15	0.0071				E	0.0049	0.00014				E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	0.00029	0.00016	J			E	3	0.0071				E	0.0099	0.00014				E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	0.00022	0.00016	J			E	1.4	0.0071				E	0.0078	0.00014				E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	0.00078	0.00016				E	4.1	0.0071				E	0.014	0.00014				E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	0.016	0.00082				E	72.3	0.036				E	0.18	0.0007				E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	0.00036	0.00016	J			E	2	0.0071				E	0.011	0.00014				E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	0.00037	0.00016	J			E	1.9	0.0071				E	0.0091	0.00014				E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	0.0034	0.00016				E	15.8	0.0071				E	0.038	0.00014				E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	0.0005	0.00016				E	3.5	0.0071				E	0.02	0.00014				E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	0.00039	0.000077	J			E	1.2	0.0071				E	0.0059	0.00014				E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	0.00025	0.000077	J			E	1.1	0.0071				E	0.0052	0.00014				E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	0.0011	0.000077				E	5.4	0.0071				E	0.014	0.00014				E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	0.0027	0.000077				E	13.6	0.0071				E	0.033	0.00014				E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.00021	0.00016	J			E	0.2	0.008				E	0.0027	0.000083				E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.00019	0.00016	J			E	0.71	0.008				E	0.0037	0.000083				E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	0.00044	0.00016	J			E	9.9	0.008				E	0.014	0.000083				E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	0.00062	0.00016				E	12.7	0.008				E	0.017	0.000083				E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.00016	0.00016	U			E	0.77	0.008				E	0.0063	0.000083				E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	0.0017	0.00016				E	6.6	0.008				E	0.025	0.000083				E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	0.0015	0.00016				E	7.3	0.008				E	0.027	0.000083				E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	0.00023	0.00016	J			E	2.1	0.008				E	0.0094	0.000083				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	0.00018	0.00003				E	0.031	0.00043				E	1.4	0.012				E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.000046	0.00003	J			E	0.0066	0.00043				E	0.15	0.012				E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	0.00047	0.00003				E	0.059	0.00043				E	3	0.012				E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	0.0002	0.00003				E	0.039	0.00043				E	1.6	0.012				E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.000082	0.00003				E	0.012	0.00043		J	FD	S	0.42	0.012		J	FD	S
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.0001	0.00003				E	0.013	0.00043		J	FD	S	0.5	0.012		J	FD	S
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.000089	0.00003				E	0.0076	0.00043		J	FD	S	0.12	0.012		J	FD	S
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.00017	0.00003				E	0.024	0.00043		J	FD	S	0.94	0.012		J	FD	S
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.00016	0.00003					0.015	0.00043		J	FD		0.31	0.012		J	FD	
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	0.00015	0.000016				E	0.034	0.0005				E	2.5	0.012				E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	0.00022	0.000016				E	0.057	0.0005				E	3.8	0.012				E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	0.0011	0.000016				E	0.32	0.0005				E	21.4	0.012				E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	0.0026	0.000016				E	0.72	0.0005				E	43	0.12				E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	0.00042	0.000016				E	0.052	0.0005				E	2.8	0.012				E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	0.00046	0.000016				E	0.047	0.0005				E	2.7	0.012				E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	0.0019	0.000016				E	0.18	0.0005				E	11.2	0.012				E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	0.0054	0.000016				E	0.52	0.0005				E	31.6	0.012				E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	0.00036	0.000016				E	0.035	0.0005				E	1.8	0.012				E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	0.00041	0.000016				E	0.042	0.0005				E	2.3	0.012				E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	0.0031	0.000016				E	0.27	0.0005				E	17.6	0.012				E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	0.001	0.000016				E	0.16	0.0005				E	8.4	0.012				E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	0.0011	0.000016					0.16	0.0005					8.2	0.012				
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.00014	0.000016				E	0.012	0.0005				E	0.59	0.012				E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	0.00027	0.000016				E	0.027	0.0005				E	1.3	0.012				E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	0.0021	0.000016				E	0.19	0.0005				E	12.2	0.012				E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	0.00041	0.000016				E	0.066	0.0005				E	3.2	0.012				E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.000053	0.000016	J			E	0.017	0.0005				E	0.89	0.012				E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	0.000074	0.000016	J			E	0.021	0.0005				E	1	0.012				E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	0.00017	0.00003				E	0.046	0.00043				E	2.6	0.012	M1	J+	MS	S
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	0.0012	0.00003				E	0.35	0.00043				E	21.7	0.012		J+	MS	S
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	0.0013	0.00003					0.39	0.00043					24	0.12		J+	MS	
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	0.00016	0.00003				E	0.036	0.00043				E	2.2	0.012		J+	MS	S
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	0.00028	0.00003				E	0.082	0.00043				E	4.5	0.012		J+	MS	S
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	0.00066	0.00003				E	0.19	0.00043				E	12.3	0.012		J+	MS	S
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	0.00048	0.00003				E	0.072	0.00043				E	8.4	0.012		J+	MS	S
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	0.0004	0.00003				E	0.1	0.00043				E	7.1	0.012		J+	MS	S
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.000083	0.00003				E	0.011	0.00043				E	0.98	0.012		J+	MS	S
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.000041	0.00003	J			E	0.0066	0.00043				E	0.55	0.012		J+	MS	S
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.000049	0.00003	J			E	0.0067	0.00043				E	0.49	0.012		J+	MS	S
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	0.00039	0.00003				E	0.056	0.0005				E	3.5	0.012				E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	0.00028	0.00003				E	0.028	0.0005				E	1.6	0.012				E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	0.00075	0.00003				E	0.08	0.0005				E	4.6	0.012				E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	0.019	0.00015				E	1.7	0.0025				E	103	0.06				E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	0.00058	0.00003				E	0.046	0.0005				E	2.6	0.012				E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	0.00049	0.00003				E	0.039	0.0005				E	2.1	0.012				E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	0.0029	0.00003				E	0.26	0.0005				E	16.9	0.012				E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	0.00068	0.00003				E	0.12	0.0005				E	5.1	0.012				E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	0.00025	0.00003				E	0.027	0.00043				E	1.4	0.012				E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	0.00025	0.00003				E	0.025	0.00043				E	1.3	0.012				E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	0.001	0.00003				E	0.092	0.00043				E	5.7	0.012				E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	0.0025	0.00003				E	0.25	0.00043				E	15.5	0.012				E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.000049	0.000016	J			E	0.0076	0.0005				E	0.33	0.012				E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.000062	0.000016	J			E	0.016	0.0005				E	0.81	0.012				E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	0.00059	0.000016				E	0.15	0.0005				E	10.1	0.012				E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	0.00082	0.000016				E	0.18	0.0005				E	13.7	0.012				E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.00037	0.000016				E	0.024	0.0005				E	0.91	0.012				E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	0.0017	0.000016				E	0.15	0.0005				E	7.9	0.012				E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	0.0015	0.000016				E	0.17	0.0005				E	8.8	0.012				E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	0.00034	0.000016				E	0.048	0.0005				E	2.4	0.012				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	0.000045	0.000045	U			E	0.4	0.000081				E	0.013	0.000043				E	0.063	0.0023				E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.000045	0.000045	U			E	0.42	0.000081				E	0.0013	0.000043				E	0.019	0.0023				E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	0.000045	0.000045	U			E	0.36	0.000081				E	0.039	0.000043				E	0.17	0.0023				E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	0.000045	0.000045	U			E	0.53	0.000081				E	0.0089	0.000043				E	0.088	0.0023				E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.000045	0.000045	U			E	0.25	0.000081				E	0.0035	0.000043		J	FD	S	0.053	0.0023		J	FD	S
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.000045	0.000045	U			E	0.24	0.000081				E	0.0049	0.000043		J	FD	S	0.057	0.0023		J	FD	S
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.000045	0.000045	U			E	0.21	0.000081				E	0.0021	0.000043		J	FD	S	0.054	0.0023		J	FD	S
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.000045	0.000045	U			E	0.25	0.000081				E	0.0079	0.000043		J	FD	S	0.075	0.0023		J	FD	S
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.000045	0.000045	U				0.27	0.000081					0.0045	0.000043		J	FD		0.058	0.0023		J	FD	
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000043	0.000043	U				0.0023	0.0023	U			
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	0.000045	0.000045	U			E	0.0053	0.000094				E	0.009	0.000028				E	0.051	0.002				E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	0.000045	0.000045	U			E	0.0061	0.000094				E	0.015	0.000028				E	0.081	0.002				E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	0.000089	0.000045	J			E	0.013	0.000094				E	0.089	0.000028				E	0.58	0.002				E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	0.00013	0.000045	J			E	0.027	0.000094				E	0.19	0.000028				E	1.2	0.02				E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	0.000062	0.000045	J			E	0.19	0.000094				E	0.037	0.000028				E	0.14	0.002				E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	0.00006	0.000045	J			E	0.3	0.000094				E	0.051	0.000028				E	0.17	0.002				E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	0.0003	0.000045				E	0.2	0.000094				E	0.28	0.000028				E	0.73	0.002				E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	0.00092	0.000045				E	0.15	0.000094				E	0.74	0.000028				E	1.8	0.02				E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	0.000045	0.000045	U			E	0.22	0.000094				E	0.031	0.000028				E	0.12	0.002				E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	0.00006	0.000045	J			E	0.27	0.000094				E	0.048	0.000028				E	0.16	0.002				E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	0.00051	0.000045				E	0.13	0.000094				E	0.46	0.000028				E	1	0.02				E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	0.00018	0.000045	J			E	0.39	0.000094				E	0.066	0.000028				E	0.38	0.002				E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	0.00013	0.000045	J				0.36	0.000094					0.063	0.000028					0.32	0.002				
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.000045	0.000045	U				0.00012	0.000094	J				0.000092	0.000028	J				0.002	0.002	U			
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.000045	0.000045	U			E	0.15	0.000094				E	0.01	0.000028				E	0.069	0.002				E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	0.000045	0.000045	U			E	0.12	0.000094				E	0.029	0.000028				E	0.13	0.002				E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	0.00031	0.000045				E	0.06	0.000094				E	0.33	0.000028				E	0.81	0.002				E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	0.000047	0.000045	J			E	0.29	0.000094				E	0.023	0.000028				E	0.14	0.002				E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.000045	0.000045	U			E	0.0048	0.000094				E	0.0034	0.000028				E	0.021	0.002				E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	0.000045	0.000045	U			E	0.0046	0.000094				E	0.0042	0.000028				E	0.027	0.002				E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	0.000045	0.000045	U			E	0.0055	0.000081				E	0.011	0.000043				E	0.063	0.0023				E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	0.000085	0.000045	J			E	0.014	0.000081				E	0.098	0.000043				E	0.59	0.02				E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	0.000095	0.000045	J				0.015	0.000081					0.11	0.000043					0.67	0.02				
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000089	0.000043	J				0.0023	0.0023	U			
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	0.000045	0.000045	U			E	0.007	0.000081				E	0.0086	0.000043				E	0.056	0.0023				E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	0.000045	0.000045	U			E	0.0073	0.000081				E	0.02	0.000043				E	0.12	0.0023				E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	0.000059	0.000045	J			E	0.0098	0.000081				E	0.054	0.000043				E	0.3	0.0023				E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	0.00009	0.000045	J			E	0.0065	0.000081				E	0.018	0.000043				E	0.11	0.0023				E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	0.000045	0.000045	U			E	0.0075	0.000081				E	0.031	0.000043				E	0.18	0.0023				E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.000045	0.000045	U			E	0.0067	0.000081				E	0.0029	0.000043				E	0.019	0.0023				E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.000045	0.000045	U			E	0.007	0.000081				E	0.0015	0.000043				E	0.011	0.0023				E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.000045	0.000045	U			E	0.0068	0.000081				E	0.0014	0.000043				E	0.013	0.0023				E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	0.000066	0.000045	J			E	0.2	0.000081				E	0.032	0.000043				E	0.13	0.0023				E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	0.000045	0.000045	U			E	0.39	0.000081				E	0.031	0.000043				E	0.11	0.0023				E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	0.000097	0.000045	J			E	0.33	0.000081				E	0.11	0.000043				E	0.35	0.0023				E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	0.0011	0.000045				E	0.14	0.0004				E	2.1	0.00022				E	7.3	0.098				E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	0.000056	0.000045	J			E	0.22	0.000081				E	0.04	0.000043				E	0.14	0.0023				E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	0.000045	0.000045	U			E	0.36	0.000081				E	0.044	0.000043				E	0.15	0.0023				E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	0.00038	0.000045				E	0.25	0.000081				E	0.43	0.000043				E	1.1	0.02				E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	0.00012	0.000045	J			E	0.41	0.000081				E	0.04	0.000043				E	0.2	0.0023				E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	0.000078	0.000045	J,B			E	0.13	0.000081				E	0.02	0.000043				E	0.094	0.0023				E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	0.000057	0.000045	J,B			E	0.17	0.000081				E	0.025	0.000043				E	0.11	0.0023				E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	0.0002	0.000045	B			E	0.085	0.000081				E	0.14	0.000043				E	0.41	0.0023				E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	0.00053	0.000045				E	0.12	0.000081				E	0.33	0.000043				E	0.91	0.046				E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.000045	0.000045	U			E	0.0046	0.000094				E	0.0011	0.000028				E	0.0097	0.002				E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.000045	0.000045	U			E	0.0045	0.000094				E	0.0035	0.000028				E	0.022	0.002				E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	0.000045	0.000045	U			E	0.0081	0.000094				E	0.052	0.000028				E	0.32	0.002				E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	0.000062	0.000045	J			E	0.01	0.000094				E	0.068	0.000028				E	0.45	0.002				E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.000045	0.000045	U			E	0.33	0.000094		J-	MS	S	0.022	0.000028				E	0.11	0.002				E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	0.00023	0.000045				E	0.17	0.000094		J-	MS	S	0.22	0.000028				E	0.62	0.039				E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	0.00033	0.000045				E	0.14	0.000094		J-	MS	S	0.19	0.000028				E	0.49	0.039				E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	0.000045	0.000045	U			E	0.32	0.000094		J-	MS	S	0.031	0.000028				E	0.11	0.002				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0041	0.000083				E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	0.0034	0.00016				E	13.2	0.008				E	0.045	0.000083				E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	0.00034	0.00016	J			E	2.8	0.008				E	0.01	0.000083				E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.00016	0.00016	U			E	0.11	0.008				E	0.0037	0.000083				E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.00016	0.00016	U				0.11	0.008					0.0038	0.000083				
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.00016	0.00016	U				0.008	0.008	U				8.3E-05	0.000083	U			
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	0.00037	0.00016	J			E	1.9	0.008				E	0.01	0.000083				E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	0.0017	0.00016				E	8.7	0.008				E	0.032	0.000083				E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	0.00027	0.00016	J			E	2.1	0.008				E	0.0086	0.000083				E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.00016	0.00016	U			E	0.088	0.008				E	0.0029	0.000083				E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.00016	0.00016	U			E	0.11	0.008				E	0.0029	0.000083				E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.00016	0.00016	U			E	0.54	0.008				E	0.0043	0.000083				E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	0.00038	0.00016	J			E	3.6	0.008				E	0.0087	0.000083				E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	0.001	0.00016				E	13.8	0.008				E	0.019	0.000083				E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	0.00081	0.00016					13.6	0.008					0.019	0.000083				
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.00016	0.00016	U				0.008	0.008	U				8.3E-05	0.000083	U			
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	0.00016	0.00016	U			E	1.8	0.008				E	0.0053	0.000083				E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	0.00025	0.00016	J			E	4.9	0.008				E	0.0089	0.000083				E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	0.0002	0.00016	J			E	3.5	0.008				E	0.0067	0.000083				E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.00016	0.00016	U			E	0.027	0.008				E	0.0021	0.000083				E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.00017	0.00016	J			E	0.018	0.008	J			E	0.0035	0.000083				E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.00016	0.00016	U			E	0.04	0.008				E	0.0034	0.000083				E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.00016	0.00016	U			E	0.032	0.008				E	0.0032	0.000083				E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.00016	0.00016	U			E	0.039	0.008				E	0.0036	0.000083				E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	0.0003	0.00016	J			E	1.7	0.008				E	0.0075	0.000083				E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	0.00085	0.00016				E	4.1	0.008				E	0.015	0.000083				E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.00016	0.00016	U			E	0.51	0.008				E	0.0037	0.000083				E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	0.00016	0.00016	U			E	1.2	0.008				E	0.0045	0.000083				E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	0.00054	0.00016				E	2.7	0.008				E	0.012	0.000083				E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	0.0042	0.00016				E	14.8	0.008				E	0.047	0.000083				E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	0.00044	0.00016	J			E	3.3	0.008				E	0.01	0.000083				E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.00016	0.00016	U			E	0.098	0.008				E	0.0033	0.000083				E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	0.00042	0.00016	J			E	1	0.008				E	0.006	0.000083				E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	0.0022	0.00016				E	9.7	0.008				E	0.029	0.000083				E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	0.00047	0.00016	J			E	3.3	0.008				E	0.012	0.000083				E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.00016	0.00016	U			E	0.51	0.008				E	0.0045	0.000083				E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	0.00059	0.00016				E	7.9	0.008	M1	J+	MS	S	0.01	0.000083				E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.00016	0.00016	U			E	0.049	0.008				E	0.0019	0.000083				E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.00016	0.00016	U			E	0.2	0.008		J+	MS	S	0.0021	0.000083				E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.00016	0.00016	U			E	0.31	0.008		J+	MS	S	0.0024	0.000083				E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	0.0002	0.00016	J			E	1.7	0.008				E	0.007	0.000083				E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	0.00031	0.00016	J			E	2.1	0.008				E	0.0089	0.000083				E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	0.00026	0.00016	J			E	1.4	0.008				E	0.006	0.000083				E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	0.00036	0.00016	J			E	2.1	0.008				E	0.0082	0.000083				E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	0.00023	0.00016	J			E	1.6	0.008				E	0.0075	0.000083				E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	0.00031	0.00016	J			E	2.6	0.008				E	0.0095	0.000083				E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	0.00037	0.00016	J			E	2.1	0.008				E	0.0077	0.000083				E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.00016	0.00016	U			E	0.4	0.008				E	0.004	0.000083				E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.00016	0.00016	U				0.37	0.008					0.0038	0.000083				
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.00016	0.00016	U				0.008	0.008	U				8.3E-05	0.000083	U			
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	0.0002	0.00016	J			E	1.2	0.008				E	0.0059	0.000083				E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	0.0002	0.00016	J			E	1.5	0.008				E	0.0064	0.000083				E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	0.00019	0.00016	J			E	1.1	0.008				E	0.0048	0.000083				E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.00016	0.00016	U			E	0.42	0.008				E	0.0037	0.000083				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.0002	0.000016				E	0.0043	0.0005				E	0.012	0.012	U			E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	0.0028	0.000016				E	0.27	0.0005				E	15.7	0.012				E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	0.00043	0.000016				E	0.054	0.0005				E	3.1	0.012				E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.000084	0.000016				E	0.0059	0.0005				E	0.18	0.012				E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.000084	0.000016					0.0062	0.0005					0.18	0.012				
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	0.00063	0.000016				E	0.046	0.0005				E	2.3	0.012				E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	0.0019	0.000016				E	0.2	0.0005				E	11	0.012				E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	0.00034	0.000016				E	0.049	0.0005				E	2.4	0.012				E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.000057	0.000016	J			E	0.0042	0.0005				E	0.1	0.012				E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.00002	0.000016	J			E	0.0065	0.0005				E	0.26	0.012				E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.000062	0.000016	J			E	0.013	0.0005				E	0.74	0.012				E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	0.0002	0.000016				E	0.053	0.0005				E	3.5	0.012				E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	0.00096	0.000016				E	0.24	0.0005				E	15.9	0.012				E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	0.00092	0.000016					0.25	0.0005					15.8	0.012				
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	0.00013	0.000016				E	0.035	0.0005				E	1.9	0.012				E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	0.00033	0.000016				E	0.082	0.0005				E	4.9	0.012				E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	0.00024	0.000016				E	0.053	0.0005				E	3.8	0.012				E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.000045	0.000016	J			E	0.0037	0.0005				E	0.17	0.012				E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.000032	0.000016	J			E	0.0038	0.0005				E	0.16	0.012				E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.000058	0.000016	J			E	0.0059	0.0005				E	0.19	0.012				E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.000028	0.000016	J			E	0.004	0.0005				E	0.15	0.012				E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.000031	0.000016	J			E	0.0051	0.0005				E	0.18	0.012				E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	0.00049	0.000016				E	0.04	0.0005				E	2	0.012				E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	0.0012	0.000016				E	0.1	0.0005				E	5.1	0.012				E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.00014	0.000016				E	0.012	0.0005				E	0.62	0.012				E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	0.00013	0.000016				E	0.021	0.0005				E	1.3	0.012				E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	0.00084	0.000016				E	0.07	0.0005				E	3.3	0.012				E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	0.0033	0.000016				E	0.33	0.0005				E	18	0.012				E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	0.00058	0.000016				E	0.063	0.0005				E	3.4	0.012				E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.000097	0.000016				E	0.0092	0.0005				E	0.16	0.012				E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	0.00046	0.000016				E	0.029	0.0005				E	1.2	0.012	M1	J-	MS	S
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	0.002	0.000016				E	0.2	0.0005				E	10.5	0.012		J-	MS	S
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	0.00057	0.000016				E	0.076	0.0005				E	3.8	0.012		J-	MS	S
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.00014	0.000016				E	0.018	0.0005				E	0.77	0.012		J-	MS	S
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	0.00047	0.000016				E	0.14	0.0005				E	8.4	0.012	P6			E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.000031	0.000016	J			E	0.0044	0.0005				E	0.16	0.012				E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.000041	0.000016	J			E	0.0071	0.0005				E	0.32	0.012				E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.000044	0.000016	J			E	0.0087	0.0005				E	0.44	0.012				E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	0.00028	0.000016				E	0.045	0.0005				E	2.1	0.012				E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	0.00042	0.000016				E	0.068	0.0005				E	2.5	0.012				E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	0.00036	0.000016				E	0.031	0.0005				E	1.5	0.012				E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	0.00046	0.000016				E	0.049	0.0005				E	2.5	0.012				E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	0.00033	0.000016				E	0.047	0.0005				E	2	0.012				E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	0.00051	0.000016				E	0.055	0.0005				E	2.9	0.012				E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	0.00048	0.000016				E	0.046	0.0005				E	2.4	0.012				E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.00016	0.000016				E	0.014	0.0005				E	0.61	0.012				E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.00014	0.000016					0.013	0.0005					0.58	0.012				
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	0.00027	0.000016				E	0.035	0.0005				E	1.4	0.012				E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	0.00033	0.000016				E	0.034	0.0005				E	1.7	0.012				E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	0.00027	0.000016				E	0.026	0.0005				E	1.2	0.012				E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.00014	0.000016				E	0.013	0.0005				E	0.61	0.012				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.000045	0.000045	U			E	0.29	0.000094	M1	J-	MS	S	0.00021	0.000028		J+	FB	S	0.034	0.002				E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	0.00036	0.000045				E	0.071	0.000094		J-	MS	S	0.42	0.000028				E	0.97	0.039				E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	0.000045	0.000045	U			E	0.19	0.000094		J-	MS	S	0.045	0.000028				E	0.16	0.002				E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.000045	0.000045	U			E	0.38	0.000094		J-	MS	S	0.0014	0.000028				E	0.026	0.002				E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.000045	0.000045	U				0.39	0.000094		J-	MS		0.0017	0.000028					0.027	0.002				
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000088	0.000028	J				0.002	0.002	U			
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	0.000064	0.000045	J			E	0.15	0.000094		J-	MS	S	0.059	0.000028				E	0.27	0.002				E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	0.00022	0.000045				E	0.045	0.000094		J-	MS	S	0.23	0.000028				E	0.61	0.039				E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	0.000045	0.000045	U			E	0.15	0.000094		J-	MS	S	0.026	0.000028				E	0.13	0.002				E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.000045	0.000045	U			E	0.22	0.000094		J-	MS	S	0.00082	0.000028		J+	FB	S	0.035	0.002				E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.000045	0.000045	U			E	0.0046	0.000094				E	0.00059	0.000028		J+	FB	S	0.0063	0.002				E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.000045	0.000045	U			E	0.0053	0.000094				E	0.003	0.000028				E	0.02	0.002				E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	0.000045	0.000045	U			E	0.0052	0.000094				E	0.016	0.000028				E	0.079	0.002				E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	0.000054	0.000045	J			E	0.011	0.000094				E	0.082	0.000028				E	0.41	0.002				E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	0.000056	0.000045	J				0.011	0.000094					0.079	0.000028					0.4	0.002				
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000094	0.000028	J				0.002	0.002	U			
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	0.000045	0.000045	U			E	0.0061	0.000094				E	0.0092	0.000028				E	0.053	0.002				E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	0.000045	0.000045	U			E	0.007	0.000094				E	0.024	0.000028				E	0.12	0.002				E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	0.000045	0.000045	U			E	0.006	0.000094				E	0.015	0.000028				E	0.091	0.002				E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.000045	0.000045	U			E	0.0058	0.000094				E	0.00038	0.000028		J+	FB	S	0.015	0.002				E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.000045	0.000045	U			E	0.0065	0.000094				E	0.00036	0.000028		J+	FB	S	0.0061	0.002				E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.000045	0.000045	U			E	0.0064	0.000094				E	0.00053	0.000028		J+	FB	S	0.011	0.002				E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.000045	0.000045	U			E	0.0062	0.000094				E	0.00042	0.000028		J+	FB	S	0.0048	0.002	J			E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.000045	0.000045	U			E	0.0063	0.000094				E	0.00054	0.000028		J+	FB	S	0.013	0.002				E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	0.000045	0.000045	U			E	0.37	0.000094				E	0.048	0.000028				E	0.18	0.002				E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	0.00017	0.000045	J			E	0.34	0.000094				E	0.13	0.000028				E	0.48	0.039				E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.000045	0.000045	U			E	0.36	0.000094				E	0.015	0.000028				E	0.041	0.002				E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	0.000045	0.000045	U			E	0.39	0.000094				E	0.011	0.000028				E	0.048	0.002				E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	0.00009	0.000045	J			E	0.31	0.000094				E	0.081	0.000028				E	0.3	0.002				E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	0.00047	0.000045				E	0.051	0.000094				E	0.53	0.00057				E	1.2	0.039				E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	0.000045	0.000045	J			E	0.2	0.000094				E	0.063	0.000028				E	0.2	0.002				E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.000045	0.000045	U			E	0.39	0.000094				E	0.0024	0.000028				E	0.011	0.002				E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	0.000045	0.000045	U			E	0.18	0.000094	M1	J-	MS	S	0.033	0.000028				E	0.17	0.002	M1	J-	MS	S
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	0.00025	0.000045				E	0.071	0.000094		J-	MS	S	0.26	0.000028				E	0.68	0.039		J-	MS	S
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	0.000094	0.000045	J			E	0.14	0.000094		J-	MS	S	0.055	0.000028				E	0.23	0.002		J-	MS	S
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.000045	0.000045	U			E	0.24	0.000094		J-	MS	S	0.0082	0.000028				E	0.072	0.002		J-	MS	S
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	0.000045	0.000045	U			E	0.0063	0.000094				E	0.037	0.000028				E	0.17	0.002				E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.000045	0.000045	U			E	0.0041	0.000094				E	0.00032	0.000028		J+	FB	S	0.0044	0.002	J			E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.000045	0.000045	U			E	0.0044	0.000094				E	0.00085	0.000028				E	0.01	0.002				E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.000045	0.000045	U			E	0.0044	0.000094				E	0.0012	0.000028				E	0.017	0.002				E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	0.000045	0.000045	U			E	0.1	0.000094				E	0.022	0.000028				E	0.077	0.002				E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	0.000052	0.000045	J			E	0.13	0.000094				E	0.033	0.000028				E	0.12	0.002				E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	0.000045	0.000045	U			E	0.18	0.000094				E	0.03	0.000028				E	0.11	0.002				E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	0.000045	0.000045	J			E	0.18	0.000094				E	0.046	0.000028				E	0.15	0.002				E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	0.000045	0.000045	U			E	0.1	0.000094				E	0.024	0.000028				E	0.089	0.002				E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	0.000063	0.000045	J			E	0.19	0.000094				E	0.037	0.000028				E	0.14	0.002				E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	0.000045	0.000045	U			E	0.074	0.000094				E	0.051	0.000028				E	0.16	0.002				E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.000045	0.000045	U			E	0.31	0.000094				E	0.0071	0.000028				E	0.038	0.002				E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.000045	0.000045	U				0.3	0.000094					0.0074	0.000028					0.036	0.002				
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000064	0.000028	J				0.002	0.002	U			
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	0.000045	0.000045	U			E	0.076	0.000094				E	0.017	0.000028				E	0.079	0.002				E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	0.000045	0.000045	U			E	0.13	0.000094				E	0.022	0.000028				E	0.1	0.002				E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	0.000045	0.000045	U			E	0.044	0.000094				E	0.025	0.000028				E	0.11	0.002				E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.000045	0.000045	U			E	0.2	0.000094				E	0.007	0.000028				E	0.054	0.002				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	0.00028	0.00016	J			E	4.9	0.008		J+	MS	S	0.0079	0.000083				E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	0.00045	0.00016	J			E	7.9	0.008		J+	MS	S	0.011	0.000083				E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.00016	0.00016	U			E	0.041	0.008				E	0.0018	0.000083				E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.00016	0.00016	U			E	0.24	0.008				E	0.0023	0.000083				E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	0.00016	0.00016	U			E	1.2	0.008				E	0.0046	0.000083				E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	0.00023	0.00016	J			E	2.9	0.008				E	0.0059	0.000083				E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	0.0003	0.00016	J			E	5.4	0.008				E	0.0078	0.000083				E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.00016	0.00016	U			E	0.16	0.008				E	0.0021	0.000083				E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	0.00016	0.00016	U			E	2.3	0.008				E	0.0054	0.000083				E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.00016	0.00016	U			E	0.24	0.008				E	0.0034	0.000083				E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0025	0.000083				E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.00016	0.00016	U			E	0.044	0.008				E	0.0027	0.000083				E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	0.00018	0.00016	J			E	1.7	0.008				E	0.0059	0.000083				E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	0.00021	0.00016	J			E	1.4	0.008				E	0.0055	0.000083				E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	0.00073	0.00016				E	4.5	0.008				E	0.012	0.000083				E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	0.00021	0.00016	J			E	1.4	0.008				E	0.0065	0.000083				E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	0.00023	0.00016	J				1.6	0.008					0.0067	0.000083				
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.00016	0.00016	U				0.008	0.008	U				8.3E-05	0.000083	U			
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	0.00028	0.00016	J			E	2	0.008				E	0.0076	0.000083				E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	0.0004	0.00016	J			E	3	0.008				E	0.01	0.000083				E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	0.0004	0.00016	J			E	1.9	0.008				E	0.0071	0.000083				E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.00016	0.00016	U			E	0.41	0.008				E	0.0037	0.000083				E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	0.00022	0.00016	J			E	1	0.008				E	0.005	0.000083				E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	0.00021	0.00016	J			E	1.3	0.008				E	0.0059	0.000083				E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.00016	0.00016	U			E	0.51	0.008				E	0.0033	0.000083				E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	0.00023	0.00016	J			E	1.3	0.008				E	0.0052	0.000083				E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	0.00047	0.00016	J			E	1.5	0.008				E	0.0085	0.000083				E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	0.00047	0.00016	J			E	1.9	0.008				E	0.0082	0.000083				E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	0.0003	0.00016	J			E	1.3	0.008				E	0.0067	0.000083				E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	0.00044	0.00016	J			E	2.2	0.008				E	0.0096	0.000083				E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	0.00029	0.00016	J			E	1.1	0.008				E	0.0074	0.000083				E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	0.00046	0.00016	J			E	2	0.008				E	0.0079	0.000083				E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	0.00037	0.00016	J			E	2.2	0.008				E	0.0097	0.000083				E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	0.00018	0.00016	J			E	1	0.008				E	0.0065	0.000083				E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	0.0003	0.00016	J				1.1	0.008					0.0073	0.000083				
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.00016	0.00016	U				0.008	0.008	U				8.3E-05	0.000083	U			
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	0.00022	0.00016	J			E	0.91	0.008				E	0.0064	0.000083				E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	0.00024	0.00016	J			E	1.2	0.008				E	0.0066	0.000083				E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	0.00025	0.00016	J			E	1.1	0.008				E	0.0057	0.000083				E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.00016	0.00016	U			E	0.59	0.008				E	0.0052	0.000083				E
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	0.00016	0.00016	U			E	1.2	0.008				E	0.0054	0.000083				E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.00016	0.00016	U			E	0.37	0.008				E	0.005	0.000083				E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.00016	0.00016	U			E	0.055	0.008				E	0.0034	0.000083				E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.00016	0.00016	U			E	0.063	0.008				E	0.0032	0.000083				E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.00016	0.00016	U				0.06	0.008					0.0032	0.000083				
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.00016	0.00016	U				0.008	0.008	U				8.3E-05	0.000083	U			
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	0.00042	0.00016	J			E	1.6	0.008				E	0.0092	0.000083				E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	0.00039	0.00016	J			E	2	0.008				E	0.0092	0.000083				E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	0.0004	0.00016	J			E	1.6	0.008				E	0.0073	0.000083				E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.00016	0.00016	U			E	0.51	0.008				E	0.0048	0.000083				E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	0.00022	0.00016	J			E	1	0.008				E	0.0066	0.000083				E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	0.0002	0.00016	J			E	1	0.008				E	0.0061	0.000083				E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.00017	0.00016	J			E	0.79	0.008				E	0.0048	0.000083				E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	0.00028	0.00016	J			E	1.5	0.008				E	0.0074	0.000083				E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	0.00016	0.00016	U			E	1	0.008				E	0.0044	0.000083				E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	0.00016	0.00016	U			E	1.9	0.008				E	0.0054	0.000083				E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	0.00023	0.00016	J			E	3.1	0.008				E	0.0055	0.000083				E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	0.00016	0.00016	U			E	1.4	0.008				E	0.0035	0.000083				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	0.0003	0.000016				E	0.086	0.0005				E	5.3	0.012				E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	0.00052	0.000016				E	0.14	0.0005				E	8.9	0.012				E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.000021	0.000016	J			E	0.0042	0.0005				E	0.14	0.012				E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.00005	0.000016	J			E	0.0096	0.0005				E	0.37	0.012				E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	0.0001	0.000016				E	0.022	0.0005				E	1.3	0.012				E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	0.00018	0.000016				E	0.048	0.0005				E	3.1	0.012				E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	0.00031	0.000016				E	0.087	0.0005				E	5.6	0.012				E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.000043	0.000016	J			E	0.005	0.0005				E	0.35	0.012				E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	0.00015	0.000016				E	0.035	0.0005				E	2.3	0.012				E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.000063	0.000016	J			E	0.0076	0.0005				E	0.54	0.012				E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.000044	0.000016	J			E	0.0037	0.0005				E	0.13	0.012				E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.000034	0.000016	J			E	0.006	0.0005				E	0.2	0.012				E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	0.00022	0.000016				E	0.039	0.0005				E	1.8	0.012				E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	0.00026	0.000016				E	0.032	0.0005				E	1.4	0.012				E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	0.00082	0.000016				E	0.096	0.0005				E	5.2	0.012				E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	0.0003	0.000016				E	0.029	0.0005				E	1.4	0.012				E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	0.00037	0.000016					0.034	0.0005					1.7	0.012				
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.000016	0.000016	U				0.00057	0.0005	J				0.012	0.012	U			
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	0.00033	0.000016				E	0.058	0.0005				E	2.2	0.012				E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	0.00054	0.000016				E	0.064	0.0005				E	3.3	0.012				E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	0.00047	0.000016				E	0.047	0.0005				E	2.3	0.012				E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.00015	0.000016				E	0.014	0.0005				E	0.55	0.012				E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	0.0002	0.000016				E	0.034	0.0005				E	1.2	0.012				E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	0.00027	0.000016				E	0.034	0.0005				E	1.5	0.012				E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.00018	0.000016				E	0.016	0.0005				E	0.61	0.012				E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	0.00027	0.000016				E	0.03	0.0005				E	1.4	0.012				E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	0.00032	0.000016				E	0.055	0.0005				E	1.7	0.012				E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	0.00036	0.000016				E	0.054	0.0005				E	2.2	0.012				E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	0.00037	0.000016				E	0.04	0.0005				E	1.5	0.012				E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	0.00052	0.000016				E	0.067	0.0005				E	2.9	0.012				E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	0.00027	0.000016				E	0.045	0.0005				E	1.4	0.012				E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	0.00052	0.000016				E	0.054	0.0005				E	2.3	0.012				E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	0.00042	0.000016				E	0.067	0.0005				E	2.6	0.012				E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	0.00032	0.000016				E	0.036	0.0005				E	1.5	0.012				E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	0.00034	0.000016					0.041	0.0005					1.6	0.012				
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.000016	0.000016	J,B	UJ	MB		0.0005	0.0005	U				0.012	0.012	U			
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	0.00027	0.000016				E	0.038	0.0005				E	1.2	0.012				E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	0.00029	0.000016				E	0.041	0.0005				E	1.5	0.012				E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	0.00033	0.000016				E	0.034	0.0005				E	1.3	0.012				E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.00019	0.000016	B	J+	MB	S	0.024	0.0005				E	0.9	0.012				E
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	0.00015	0.000016	B	J+	MB	S	0.027	0.0005				E	1.5	0.012				E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.00012	0.000016	B	J+	MB	S	0.015	0.0005				E	0.9	0.012				E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.000047	0.000016	J,B	UJ	MB	S	0.006	0.0005				E	0.22	0.012				E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.000042	0.000016	J,B	UJ	MB	S	0.0066	0.0005				E	0.21	0.012				E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.000067	0.000016	J,B	UJ	MB		0.0067	0.0005					0.21	0.012				
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.000016	0.000016	J,B	UJ	MB		0.0005	0.0005	U				0.012	0.012	U			
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	0.00033	0.000016				E	0.06	0.0005				E	2.1	0.012				E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	0.00042	0.000016				E	0.068	0.0005				E	2.6	0.012				E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	0.00049	0.000016				E	0.05	0.0005				E	2	0.012				E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.00013	0.000016	B			E	0.022	0.0005				E	0.71	0.012				E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	0.00099	0.000016				E	0.037	0.0005				E	1.2	0.012				E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	0.00024	0.000016				E	0.036	0.0005				E	1.3	0.012				E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.00024	0.000016				E	0.024	0.0005				E	0.94	0.012				E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	0.00042	0.000016				E	0.048	0.0005				E	1.9	0.012				E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	0.000092	0.000016				E	0.018	0.0005				E	1.5	0.012				E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	0.00014	0.000016				E	0.03	0.0005				E	2.3	0.012				E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	0.00023	0.000016				E	0.052	0.0005				E	3	0.012				E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	0.00016	0.000016				E	0.03	0.0005				E	1.6	0.012				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	0.000045	0.000045	U			E	0.0044	0.000094				E	0.023	0.000028				E	0.11	0.002				E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	0.000045	0.000045	U			E	0.0072	0.000094				E	0.04	0.000028				E	0.2	0.002				E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.000045	0.000045	U			E	0.0041	0.000094				E	0.00021	0.000028		J+	FB	S	0.0042	0.002	J			E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.000045	0.000045	U			E	0.0044	0.000094				E	0.001	0.000028				E	0.015	0.002				E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	0.000045	0.000045	U			E	0.0046	0.000094				E	0.0052	0.000028				E	0.033	0.002				E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	0.000045	0.000045	U			E	0.0038	0.000094				E	0.013	0.000028				E	0.067	0.002				E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	0.000045	0.000045	U			E	0.0049	0.000094				E	0.021	0.000028				E	0.12	0.002				E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.000045	0.000045	U			E	0.0059	0.000094				E	0.00072	0.000028		J+	FB	S	0.011	0.002				E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	0.000045	0.000045	U			E	0.004	0.000094				E	0.01	0.000028				E	0.053	0.002				E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.000045	0.000045	U			E	0.0058	0.000094				E	0.0014	0.000028				E	0.015	0.002				E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.000045	0.000045	U			E	0.0058	0.000094				E	0.0002	0.000028		J+	FB	S	0.0088	0.002				E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.000045	0.000045	U			E	0.0061	0.000094				E	0.00043	0.000028		J+	FB	S	0.01	0.002				E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	0.000045	0.000045	U			E	0.079	0.000094				E	0.016	0.000028				E	0.065	0.002				E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	0.000045	0.000045	U			E	0.14	0.000094				E	0.02	0.000028				E	0.076	0.002				E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	0.000075	0.000045	J			E	0.18	0.000094				E	0.088	0.000028				E	0.3	0.002				E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	0.000045	0.000045	U			E	0.24	0.000094				E	0.026	0.000028				E	0.11	0.002				E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	0.000045	0.000045	U				0.26	0.000094					0.029	0.000028					0.12	0.002				
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000083	0.000028	J				0.002	0.002	U			
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	0.000045	0.000045	U			E	0.1	0.000094				E	0.025	0.000028				E	0.097	0.002				E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	0.000086	0.000045	J			E	0.14	0.000094				E	0.041	0.000028				E	0.15	0.002				E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	0.000045	0.000045	U			E	0.073	0.000094				E	0.048	0.000028				E	0.17	0.002				E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.000045	0.000045	U			E	0.33	0.000094				E	0.0071	0.000028				E	0.036	0.002				E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	0.000045	0.000045	U			E	0.07	0.000094				E	0.012	0.000028				E	0.07	0.002				E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	0.000045	0.000045	U			E	0.088	0.000094				E	0.019	0.000028				E	0.091	0.002				E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.000045	0.000045	U			E	0.086	0.000094				E	0.011	0.000028				E	0.07	0.002				E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	0.000045	0.000045	U			E	0.11	0.000094				E	0.024	0.000028				E	0.11	0.002				E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	0.000045	0.000045	U			E	0.015	0.000094				E	0.025	0.000028				E	0.096	0.002				E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	0.000064	0.000045	J			E	0.033	0.000094				E	0.028	0.000028				E	0.11	0.002				E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	0.000045	0.000045	U			E	0.16	0.000094				E	0.031	0.000028				E	0.13	0.002				E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	0.000056	0.000045	J			E	0.16	0.000094				E	0.047	0.000028				E	0.18	0.002				E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	0.000045	0.000045	U			E	0.014	0.000094				E	0.022	0.000028				E	0.08	0.002				E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	0.000045	0.000045	U			E	0.08	0.000094				E	0.053	0.000028				E	0.18	0.002				E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	0.000063	0.000045	J			E	0.068	0.000094				E	0.035	0.000028				E	0.14	0.002				E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	0.000045	0.000045	U			E	0.31	0.000094				E	0.017	0.000028				E	0.089	0.002				E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	0.000045	0.000045	U				0.33	0.000094					0.019	0.000028					0.1	0.002				
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.00012	0.000028					0.002	0.002	U			
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	0.000045	0.000045	U			E	0.013	0.000094				E	0.017	0.000028				E	0.087	0.002				E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	0.000045	0.000045	U			E	0.054	0.000094				E	0.021	0.000028				E	0.11	0.002				E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	0.000045	0.000045	U			E	0.059	0.000094				E	0.031	0.000028				E	0.14	0.002				E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.000045	0.000045	U			E	0.23	0.000094				E	0.011	0.000028				E	0.087	0.002				E
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	0.000045	0.000045	U			E	0.004	0.000094				E	0.0069	0.000028				E	0.049	0.002				E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.000045	0.000045	U			E	0.0062	0.000094				E	0.0031	0.000028				E	0.03	0.002				E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.000045	0.000045	U			E	0.0066	0.000094				E	0.00052	0.000028		J+	FB	S	0.013	0.002				E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.000045	0.000045	U			E	0.0062	0.000094				E	0.0005	0.000028		J+	FB	S	0.015	0.002				E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.000045	0.000045	U				0.0064	0.000094					0.00052	0.000028		J+	FB		0.016	0.002				
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.00012	0.000028					0.002	0.002	U			
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	0.000079	0.000045	J			E	0.014	0.000094				E	0.031	0.000028				E	0.1	0.002				E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	0.00012	0.000045	J			E	0.044	0.000094				E	0.037	0.000028				E	0.14	0.002				E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	0.00007	0.000045	J			E	0.15	0.000094				E	0.048	0.000028				E	0.17	0.002				E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.000046	0.000045	J			E	0.33	0.000094				E	0.0088	0.000028				E	0.05	0.002				E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	0.000055	0.000045	J			E	0.012	0.000094				E	0.017	0.000028				E	0.088	0.002				E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	0.000062	0.000045	J			E	0.028	0.000094				E	0.018	0.000028				E	0.094	0.002				E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.000045	0.000045	U			E	0.11	0.000094				E	0.019	0.000028				E	0.1	0.002				E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	0.000064	0.000045	J			E	0.13	0.000094				E	0.031	0.000028				E	0.14	0.002				E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	0.000045	0.000045	U			E	0.004	0.000094				E	0.0045	0.000028				E	0.026	0.002				E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	0.000045	0.000045	U			E	0.0028	0.000094				E	0.01	0.000028				E	0.051	0.002				E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	0.000045	0.000045	U			E	0.0028	0.000094				E	0.016	0.000028				E	0.079	0.002				E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	0.000045	0.000045	U			E	0.0037	0.000094				E	0.0082	0.000028				E	0.089	0.002				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	0.00022	0.00016	J			E	1.5	0.008				E	0.0082	0.000083				E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	0.00028	0.00016	J			E	1.8	0.008				E	0.0094	0.000083				E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	0.00022	0.00016	J			E	1.5	0.008				E	0.0079	0.000083				E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	0.00037	0.00016	J			E	2.4	0.008				E	0.011	0.000083				E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	0.00023	0.00016	J			E	1.6	0.008				E	0.0082	0.000083				E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	0.00031	0.00016	J			E	2.1	0.008				E	0.01	0.000083				E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	0.00043	0.00016	J			E	2.2	0.008				E	0.0084	0.000083				E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	0.00023	0.00016	J			E	1.6	0.008				E	0.0092	0.000083				E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	0.00028	0.00016	J				1.8	0.008					0.0089	0.000083				
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.00016	0.00016	U				0.008	0.008	U				8.3E-05	0.000083	U			
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	0.00016	0.00016	U			E	0.69	0.008				E	0.007	0.000083				E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	0.00024	0.00016	J			E	1.4	0.008				E	0.0076	0.000083				E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	0.00016	0.00016	U			E	0.93	0.008				E	0.0053	0.000083				E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	0.00016	0.00016	U			E	0.77	0.008				E	0.0058	0.000083				E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	0.00016	0.00016	U			E	0.8	0.008				E	0.0036	0.000083				E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	0.00016	0.00016	U			E	1.5	0.008				E	0.0049	0.000083				E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.00016	0.00016	U			E	0.8	0.008		J+	MS,RPD	S	0.004	0.000083				E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	0.00016	0.00016	U			E	1.3	0.008	R1,M1	J+	MS,RPD	S	0.004	0.000083				E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.00016	0.00016	U			E	0.63	0.008		J+	MS,RPD	S	0.0059	0.000083				E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	0.00016	0.00016	U			E	1.2	0.008		J+	MS,RPD	S	0.0063	0.000083				E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	0.00016	0.00016	U			E	1.3	0.008		J+	MS,RPD	S	0.0056	0.000083				E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	0.00016	0.00016	U			E	0.6	0.008		J+	MS,RPD	S	0.0037	0.000083				E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.00016	0.00016	U			E	0.47	0.008		J+	MS,RPD	S	0.0062	0.000083				E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	0.00016	0.00016	U			E	0.99	0.008		J+	MS,RPD	S	0.0063	0.000083				E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	0.00016	0.00016	U			E	0.56	0.008		J+	MS,RPD	S	0.0053	0.000083				E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.00016	0.00016	U			E	0.11	0.008		J+	MS,RPD	S	0.0038	0.000083				E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	0.00018	0.00016	J			E	1.4	0.008				E	0.0074	0.000083				E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	0.00018	0.00016	J			E	1.1	0.008				E	0.0065	0.000083				E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	0.00039	0.00016	J			E	1.8	0.008				E	0.0071	0.000083				E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.00016	0.00016	U			E	0.17	0.008				E	0.004	0.000083				E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.00016	0.00016	U				0.17	0.008					0.004	0.000083				
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.00016	0.00016	U				0.008	0.008	U				8.3E-05	0.000083	U			
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	0.00025	0.00016	J			E	1.7	0.008				E	0.0089	0.000083				E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	0.00016	0.00016	J			E	1.4	0.008				E	0.0093	0.000083				E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	0.00062	0.00016				E	2.9	0.008				E	0.0095	0.000083				E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	0.00016	0.00016	J			E	1.2	0.008				E	0.0075	0.000083				E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	0.00019	0.00016	J			E	0.95	0.008				E	0.0067	0.000083				E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	0.00024	0.00016	J			E	1.4	0.008				E	0.0074	0.000083				E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	0.00021	0.00016	J			E	1.1	0.008				E	0.0051	0.000083				E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	0.0003	0.00016	J			E	1.9	0.008				E	0.0079	0.000083				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	0.00031	0.000016				E	0.053	0.0005				E	1.9	0.012				E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	0.0004	0.000016				E	0.062	0.0005				E	2.4	0.012				E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	0.00045	0.000016				E	0.046	0.0005				E	1.8	0.012				E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	0.00058	0.000016				E	0.068	0.0005				E	2.8	0.012				E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	0.00033	0.000016				E	0.051	0.0005				E	2	0.012				E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	0.00049	0.000016				E	0.065	0.0005				E	2.6	0.012				E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	0.00046	0.000016				E	0.055	0.0005				E	2.6	0.012				E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	0.00039	0.000016				E	0.052	0.0005				E	2.2	0.012				E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	0.00038	0.000016					0.05	0.0005					2.3	0.012				
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.000017	0.000016	J				0.0005	0.0005	U				0.012	0.012	U			
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	0.00031	0.000016				E	0.043	0.0005				E	1.1	0.012				E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	0.00037	0.000016				E	0.047	0.0005				E	1.8	0.012				E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	0.0003	0.000016				E	0.032	0.0005				E	1.1	0.012				E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	0.00021	0.000016				E	0.028	0.0005				E	1.2	0.012				E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	0.000081	0.000016				E	0.014	0.0005				E	1	0.012				E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	0.0001	0.000016				E	0.023	0.0005				E	2	0.012				E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.00017	0.000016				E	0.034	0.0005				E	0.95	0.012		J+	MS,RPD	S
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	0.00022	0.000016				E	0.04	0.0005				E	1.4	0.012	R1,M1	J+	MS,RPD	S
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.00011	0.000016				E	0.022	0.0005				E	0.74	0.012		J+	MS,RPD	S
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	0.00012	0.000016				E	0.027	0.0005				E	1.3	0.012		J+	MS,RPD	S
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	0.00017	0.000016				E	0.034	0.0005				E	1.7	0.012		J+	MS,RPD	S
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	0.00015	0.000016				E	0.016	0.0005				E	1.3	0.012		J+	MS,RPD	S
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.000084	0.000016				E	0.018	0.0005				E	0.66	0.012		J+	MS,RPD	S
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	0.00011	0.000016				E	0.027	0.0005				E	1.3	0.012		J+	MS,RPD	S
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	0.0001	0.000016				E	0.02	0.0005				E	1.1	0.012		J+	MS,RPD	S
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.000068	0.000016	J			E	0.0084	0.0005				E	0.39	0.012		J+	MS,RPD	S
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	0.00025	0.000016				E	0.045	0.0005		J	FD	S	1.9	0.012				E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	0.00028	0.000016				E	0.038	0.0005		J	FD	S	1.4	0.012				E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	0.00043	0.000016				E	0.041	0.0005		J	FD	S	1.9	0.012				E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.000064	0.000016	J			E	0.0074	0.0005		J	FD	S	0.31	0.012				E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.00007	0.000016	J				0.006	0.0005		J	FD		0.3	0.012				
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	0.00045	0.000016				E	0.059	0.0005		J	FD	S	2.3	0.012				E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	0.00049	0.000016				E	0.059	0.0005		J	FD	S	1.8	0.012				E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	0.0006	0.000016				E	0.068	0.0005		J	FD	S	3.3	0.012				E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	0.00028	0.000016				E	0.039	0.0005		J	FD	S	1.6	0.012				E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	0.00027	0.000016				E	0.039	0.0005		J	FD	S	1.4	0.012				E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	0.00035	0.000016				E	0.046	0.0005		J	FD	S	1.9	0.012				E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	0.00027	0.000016				E	0.031	0.0005		J	FD	S	1.3	0.012				E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	0.00039	0.000016				E	0.049	0.0005		J	FD	S	2.4	0.012				E

Table A3a. BPSOU 2021 Wet Weather Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.022	0.000028				E	0.093	0.002				E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.035	0.000028				E	0.13	0.002				E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.039	0.000028				E	0.14	0.002				E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	0.000045	0.000045	U			E	0.21	0.000094				E	0.052	0.000028				E	0.19	0.002				E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	0.000045	0.000045	U			E	0.18	0.000094				E	0.025	0.000028				E	0.094	0.002				E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	0.000045	0.000045	U			E	0.21	0.000094				E	0.04	0.000028				E	0.15	0.002				E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	0.000045	0.000045	U			E	0.074	0.000094				E	0.057	0.000028				E	0.18	0.002				E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	0.000045	0.000045	U			E	0.42	0.000094				E	0.029	0.000028				E	0.12	0.002				E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	0.000045	0.000045	U				0.42	0.000094					0.029	0.000028					0.11	0.002				
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000083	0.000028	J				0.002	0.002	U			
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	0.000045	0.000045	U			E	0.13	0.000094				E	0.021	0.000028				E	0.1	0.002				E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	0.000045	0.000045	U			E	0.17	0.000094				E	0.027	0.000028				E	0.13	0.002				E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	0.000045	0.000045	U			E	0.048	0.000094				E	0.027	0.000028				E	0.12	0.002				E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	0.000045	0.000045	U			E	0.35	0.000094				E	0.015	0.000028				E	0.084	0.002				E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	0.000045	0.000045	U			E	0.0033	0.000094				E	0.0031	0.000028				E	0.021	0.002				E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	0.000045	0.000045	U			E	0.003	0.000094				E	0.0082	0.000028				E	0.039	0.002				E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.000045	0.000045	U			E	0.0017	0.000094				E	0.01	0.000028				E	0.052	0.002				E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	0.000045	0.000045	U			E	0.0022	0.000094				E	0.012	0.000028				E	0.08	0.002				E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.000045	0.000045	U			E	0.0039	0.000094				E	0.0044	0.000028				E	0.037	0.002				E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	0.000045	0.000045	U			E	0.0032	0.000094				E	0.0067	0.000028				E	0.039	0.002				E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	0.000045	0.000045	U			E	0.0026	0.000094				E	0.01	0.000028				E	0.057	0.002				E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	0.000045	0.000045	U			E	0.0058	0.000094				E	0.0043	0.000028				E	0.031	0.002				E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.000045	0.000045	U			E	0.0033	0.000094				E	0.0044	0.000028				E	0.029	0.002				E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	0.000045	0.000045	U			E	0.003	0.000094				E	0.0078	0.000028				E	0.043	0.002				E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	0.000045	0.000045	U			E	0.0048	0.000094				E	0.005	0.000028				E	0.034	0.002				E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.000045	0.000045	U			E	0.006	0.000094				E	0.0011	0.000028				E	0.018	0.002				E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	0.000045	0.000045	U			E	0.16	0.000094				E	0.019	0.000028				E	0.077	0.002				E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	0.000045	0.000045	U			E	0.15	0.000094				E	0.022	0.000028				E	0.085	0.002				E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	0.000045	0.000045	U			E	0.18	0.000094				E	0.05	0.000028				E	0.16	0.002				E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.000045	0.000045	U			E	0.4	0.000094				E	0.0041	0.000028				E	0.024	0.002				E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.000045	0.000045	U				0.41	0.000094					0.0042	0.000028					0.027	0.002				
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.00009	0.000028	J				0.002	0.002	U			
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	0.000045	0.000045	U			E	0.18	0.000094				E	0.029	0.000028				E	0.11	0.002				E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	0.000045	0.000045	U			E	0.21	0.000094				E	0.035	0.000028				E	0.14	0.002				E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	0.000045	0.000045	U			E	0.076	0.000094				E	0.071	0.000028				E	0.23	0.002				E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	0.000045	0.000045	U			E	0.51	0.0019				E	0.02	0.000028				E	0.086	0.002				E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	0.000045	0.000045	U			E	0.14	0.000094				E	0.017	0.000028				E	0.077	0.02	B			E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	0.000053	0.000045	J			E	0.14	0.000094				E	0.026	0.000028				E	0.12	0.02	B			E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	0.000045	0.000045	U			E	0.094	0.000094				E	0.024	0.000028				E	0.11	0.02	B			E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	0.000045	0.000045	U			E	0.2	0.000094				E	0.032	0.000028				E	0.13	0.02	B			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	0.000077	0.000077	U			E	0.08	0.0071				E	0.0025	0.00014				E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	0.00012	0.000077	J			E	0.022	0.0071				E	0.0024	0.00014				E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0021	0.00014				E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.0021	0.00014				E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	0.000077	0.000077	U			E	0.0096	0.0071	J			E	0.0042	0.00014				E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	0.000077	0.000077	U			E	0.008	0.0071	J			E	0.0041	0.00014				E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	0.000077	0.000077	U			E	0.0083	0.0071	J			E	0.0039	0.00014				E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	0.000077	0.000077	U			E	0.0089	0.0071	J			E	0.0035	0.00014				E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	0.000077	0.000077	U				0.0087	0.0071	J				0.0036	0.00014				
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.004	0.00014				E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	0.000077	0.000077	U			E	0.0079	0.0071	J			E	0.0041	0.00014				E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0036	0.00014				E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	0.000077	0.000077	U			E	0.0088	0.0071	J			E	0.0033	0.00014				E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0032	0.00014				E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	0.000077	0.000077	U			E	0.0081	0.0071	J			E	0.0031	0.00014				E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	0.000077	0.000077	U			E	0.0072	0.0071	J			E	0.0026	0.00014				E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	0.000077	0.000077	U			E	0.0086	0.0071	J			E	0.0025	0.00014				E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	0.000077	0.000077	U			E	0.017	0.0071	J			E	0.0024	0.00014				E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	0.000077	0.000077	U			E	0.02	0.0071				E	0.0023	0.00014				E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	0.00011	0.000077	J			E	0.014	0.0071	J			E	0.0022	0.00014				E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.000077	0.000077	U			E	0.0097	0.0071	J			E	0.0022	0.00014				E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	0.00015	0.000077	J			E	0.016	0.0071	J			E	0.0044	0.00014				E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	0.00017	0.000077	J			E	1.2	0.0071				E	0.0059	0.00014				E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	0.000077	0.000077	U			E	0.035	0.0071				E	0.0031	0.00014				E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	0.000077	0.000077	U			E	0.0092	0.0071	J			E	0.0028	0.00014				E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.000077	0.000077	U			E	0.014	0.0071	J			E	0.0053	0.00014				E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	0.000077	0.000077	U			E	0.016	0.0071	J			E	0.0044	0.00014				E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	0.000077	0.000077	U			E	0.019	0.0071	J			E	0.0038	0.00014				E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.000077	0.000077	U			E	0.0083	0.0071	J			E	0.0037	0.00014				E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	0.000077	0.000077	U			E	0.014	0.0071	J			E	0.0039	0.00014				E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.000077	0.000077	U			E	0.0094	0.0071	J			E	0.0032	0.00014				E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.000077	0.000077	U			E	0.0098	0.0071	J			E	0.0031	0.00014				E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	0.000077	0.000077	U			E	0.0092	0.0071	J			E	0.003	0.00014				E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	0.000077	0.000077	U			E	0.33	0.0071				E	0.0053	0.00014				E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	0.000077	0.000077	U			E	0.0096	0.0071	J			E	0.0039	0.00014				E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.0037	0.00014				E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	0.000077	0.000077	U			E	0.0074	0.0071	J			E	0.0033	0.00014				E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	0.000077	0.000077	U			E	0.0077	0.0071	J			E	0.0034	0.00014				E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	0.000077	0.000077	U			E	0.0093	0.0071	J			E	0.0031	0.00014				E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	0.000077	0.000077	U			E	0.0092	0.0071	J,B			E	0.0028	0.00014				E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	0.00009	0.000077	J			E	0.008	0.0071	J,B			E	0.0026	0.00014				E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	0.000077	0.000077	U				0.0093	0.0071	J,B				0.0027	0.00014				
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	0.000077	0.000077	J			E	0.01	0.0071	J			E	0.0024	0.00014				E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0026	0.00014				E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	0.000077	0.000077	U			E	0.014	0.0071	J			E	0.0025	0.00014				E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0025	0.00014				E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	0.000077	0.000077	U				0.0097	0.0071	J				0.0026	0.00014				
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0036	0.00014				E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0035	0.00014				E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	0.000077	0.000077	U			E	0.0086	0.0071	J			E	0.0032	0.00014				E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.000077	0.000077	U			E	0.022	0.0071				E	0.0032	0.00014				E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0036	0.00014				E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	0.000077	0.000077	U			E	0.0088	0.0071	J			E	0.0033	0.00014				E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0031	0.00014				E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.000077	0.000077	U			E	0.0099	0.0071	J			E	0.0032	0.00014				E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.003	0.00014				E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0029	0.00014				E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	0.000077	0.000077	U			E	0.019	0.0071	J			E	0.0029	0.00014				E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.0029	0.00014				E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	0.00003	0.00003	U			E	0.0057	0.00043				E	0.19	0.012				E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	0.000042	0.00003	J			E	0.0056	0.00043				E	0.19	0.012				E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.00003	0.00003	U			E	0.0034	0.00043				E	0.21	0.012				E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.00003	0.00003	U			E	0.0036	0.00043				E	0.2	0.012				E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	0.000055	0.00003	J			E	0.0053	0.00043				E	0.017	0.012	J			E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	0.000053	0.00003	J			E	0.0057	0.00043				E	0.019	0.012	J			E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	0.00005	0.00003	J			E	0.0049	0.00043				E	0.023	0.012	J			E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	0.000083	0.00003				E	0.0051	0.00043				E	0.025	0.012	J			E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	0.000077	0.00003	J				0.005	0.00043					0.029	0.012	J			
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	0.000053	0.00003	J			E	0.0051	0.00043				E	0.019	0.012	J			E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	0.000052	0.00003	J			E	0.0066	0.00043				E	0.017	0.012	J			E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	0.000051	0.00003	J			E	0.0048	0.00043				E	0.027	0.012	J			E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	0.000077	0.00003	J			E	0.0055	0.00043				E	0.025	0.012	J			E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	0.000059	0.00003	J			E	0.015	0.00043				E	0.028	0.012	J			E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	0.00009	0.00003				E	0.0074	0.00043				E	0.043	0.012	J			E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	0.000077	0.00003	J			E	0.0055	0.00043				E	0.021	0.012	J			E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	0.000055	0.00003	J			E	0.0064	0.00043				E	0.024	0.012	J			E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	0.00003	0.00003	U			E	0.011	0.00043				E	0.17	0.012				E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	0.00003	0.00003	U			E	0.0056	0.00043				E	0.16	0.012				E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	0.00003	0.00003	U			E	0.0044	0.00043				E	0.19	0.012				E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.00003	0.00003	U			E	0.0035	0.00043				E	0.21	0.012				E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	0.000038	0.00003	J			E	0.0053	0.00043		J+	FB	S	0.15	0.012				E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	0.0001	0.00003				E	0.02	0.00043				E	1.6	0.012				E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	0.00003	0.00003	U			E	0.0056	0.00043		J+	FB	S	0.14	0.012				E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	0.00003	0.00003	U			E	0.0035	0.00043		J+	FB	S	0.15	0.012				E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.00003	0.00003	U			E	0.0051	0.00043		J+	FB	S	0.13	0.012				E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	0.00003	0.00003	U			E	0.005	0.00043		J+	FB	S	0.12	0.012				E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	0.00003	0.00003	U			E	0.0043	0.00043		J+	FB	S	0.14	0.012				E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.00003	0.00003	U			E	0.0032	0.00043		J+	FB	S	0.16	0.012				E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	0.00004	0.00003	J			E	0.0046	0.00043		J+	FB	S	0.023	0.012	J			E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.000049	0.00003	J			E	0.0029	0.00043		J+	FB	S	0.024	0.012	J			E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.000063	0.00003	J			E	0.0043	0.00043		J+	FB	S	0.018	0.012	J			E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	0.00005	0.00003	J			E	0.0032	0.00043		J+	FB	S	0.012	0.012	U			E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	0.000086	0.00003				E	0.013	0.00043		J+	FB	S	0.44	0.012				E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	0.000049	0.00003	J			E	0.0066	0.00043		J+	FB	S	0.022	0.012	J			E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	0.000068	0.00003	J			E	0.0049	0.00043		J+	FB	S	0.019	0.012	J			E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	0.000088	0.00003				E	0.0062	0.00043		J+	FB	S	0.023	0.012	J			E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	0.00007	0.00003	J			E	0.0058	0.00043		J+	FB	S	0.03	0.012	J			E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	0.000083	0.00003				E	0.0052	0.00043		J+	FB	S	0.031	0.012	J			E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	0.00008	0.00003				E	0.0065	0.00043		J+	FB	S	0.034	0.012	J,B			E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	0.00007	0.00003	J			E	0.0062	0.00043		J+	FB	S	0.019	0.012	J,B			E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	0.000065	0.00003	J				0.0064	0.00043		J+	FB		0.02	0.012	J,B			
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.00003	0.00003	U				0.0015	0.00043					0.014	0.012	J,B			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	0.000033	0.00003	J			E	0.0042	0.00043				E	0.2	0.012				E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	0.00003	0.00003	U			E	0.0042	0.00043				E	0.2	0.012				E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	0.00003	0.00003	U			E	0.0046	0.00043				E	0.17	0.012				E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	0.000031	0.00003	J			E	0.0046	0.00043				E	0.14	0.012				E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	0.000031	0.00003	J				0.0047	0.00043					0.14	0.012				
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	0.000053	0.00003	J			E	0.0077	0.00043				E	0.043	0.012	J			E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	0.00008	0.00003				E	0.0086	0.00043				E	0.012	0.012	U			E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	0.000079	0.00003	J			E	0.0052	0.00043				E	0.012	0.012	U			E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.000068	0.00003	J			E	0.0093	0.00043				E	0.012	0.012	U			E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	0.000056	0.00003	J			E	0.0072	0.00043				E	0.045	0.012	J			E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	0.000094	0.00003				E	0.0054	0.00043				E	0.012	0.012	U			E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	0.00007	0.00003	J			E	0.0037	0.00043				E	0.012	0.012	U			E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.000066	0.00003	J			E	0.0037	0.00043				E	0.012	0.012	U			E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	0.000057	0.00003	J			E	0.0088	0.00043				E	0.055	0.012				E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.000094	0.00003				E	0.0068	0.00043				E	0.022	0.012	J			E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	0.000089	0.00003				E	0.0051	0.00043				E	0.028	0.012	J			E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	0.000068	0.00003	J			E	0.0064	0.00043				E	0.019	0.012	J			E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	0.000045	0.000045	U			E	0.0034	0.000081				E	0.00049	0.000043				E	0.0052	0.0023				E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	0.000045	0.000045	U			E	0.004	0.000081				E	0.00054	0.000043				E	0.0073	0.0023				E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.00015	0.000043				E	0.0039	0.0023	J			E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	0.000045	0.000045	U			E	0.0043	0.000081				E	0.00015	0.000043				E	0.0066	0.0023				E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	0.000045	0.000045	U			E	0.32	0.000081				E	0.000056	0.000043	J			E	0.019	0.0023				E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	0.000045	0.000045	U			E	0.27	0.000081				E	0.000077	0.000043	J			E	0.018	0.0023				E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	0.000045	0.000045	U			E	0.26	0.000081				E	0.000094	0.000043	J			E	0.019	0.0023				E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	0.000045	0.000045	U			E	0.23	0.000081				E	0.00014	0.000043				E	0.042	0.0023				E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	0.000045	0.000045	U				0.22	0.000081					0.00014	0.000043					0.042	0.0023				
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000043	0.000043	U				0.0023	0.0023	U			
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	0.000045	0.000045	U			E	0.27	0.000081				E	0.000087	0.000043	J			E	0.017	0.0023				E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	0.000045	0.000045	U			E	0.27	0.000081				E	0.00014	0.000043				E	0.019	0.0023				E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	0.000045	0.000045	U			E	0.25	0.000081				E	0.000081	0.000043	J			E	0.021	0.0023				E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	0.000045	0.000045	U			E	0.19	0.000081				E	0.000095	0.000043	J			E	0.05	0.0023				E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	0.000045	0.000045	U			E	0.2	0.000081				E	0.0006	0.000043				E	0.034	0.0023				E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	0.000045	0.000045	U			E	0.15	0.000081				E	0.00034	0.000043				E	0.035	0.0023				E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	0.000045	0.000045	U			E	0.17	0.000081				E	0.00024	0.000043				E	0.035	0.0023				E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	0.000045	0.000045	U			E	0.16	0.000081				E	0.00011	0.000043				E	0.033	0.0023				E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	0.000045	0.000045	U			E	0.0033	0.000081				E	0.00065	0.000043				E	0.008	0.0023				E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	0.000045	0.000045	U			E	0.0032	0.000081				E	0.00054	0.000043				E	0.0064	0.0023				E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	0.000045	0.000045	U			E	0.0039	0.000081				E	0.00031	0.000043				E	0.0058	0.0023				E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	0.000045	0.000045	U			E	0.0044	0.000081				E	0.00016	0.000043				E	0.0067	0.0023				E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	0.000045	0.000045	U			E	0.0048	0.000081				E	0.00041	0.000043				E	0.0077	0.0023				E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	0.000045	0.000045	U			E	0.0062	0.000081				E	0.006	0.000043				E	0.15	0.0023				E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	0.000045	0.000045	U			E	0.004	0.000081				E	0.00045	0.000043				E	0.0093	0.0023				E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	0.000045	0.000045	U			E	0.0054	0.000081				E	0.00016	0.000043				E	0.036	0.0023				E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	0.000045	0.000045	U			E	0.0045	0.000081				E	0.00036	0.000043				E	0.0095	0.0023				E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.00037	0.000043				E	0.0092	0.0023				E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	0.000045	0.000045	U			E	0.0047	0.000081				E	0.0003	0.000043				E	0.0084	0.0023				E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	0.000045	0.000045	U			E	0.0053	0.000081				E	0.00016	0.000043				E	0.0094	0.0023				E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	0.000045	0.000045	U			E	0.31	0.000081				E	0.00017	0.000043				E	0.013	0.0023				E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	0.000045	0.000045	U			E	0.27	0.000081				E	0.00008	0.000043	J			E	0.019	0.0023				E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	0.000045	0.000045	U			E	0.29	0.000081				E	0.000085	0.000043	J			E	0.015	0.0023				E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	0.000045	0.000045	U			E	0.28	0.000081				E	0.000073	0.000043	J			E	0.019	0.0023				E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	0.000045	0.000045	U			E	0.33	0.000081				E	0.0028	0.000043				E	0.029	0.0023				E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	0.000045	0.000045	U			E	0.28	0.000081				E	0.00016	0.000043				E	0.016	0.0023				E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	0.000045	0.000045	U			E	0.28	0.000081				E	0.000089	0.000043	J			E	0.02	0.0023				E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	0.000045	0.000045	U			E	0.2	0.000081				E	0.00015	0.000043				E	0.027	0.0023				E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	0.000045	0.000045	U			E	0.21	0.000081				E	0.00022	0.000043				E	0.028	0.0023				E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	0.000045	0.000045	U			E	0.18	0.000081				E	0.00017	0.000043				E	0.03	0.0023				E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	0.000045	0.000045	U			E	0.16	0.000081				E	0.0003	0.000043				E	0.035	0.0023				E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	0.000045	0.000045	U			E	0.17	0.000081				E	0.00013	0.000043				E	0.046	0.0023				E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	0.000045	0.000045	U				0.17	0.000081					0.00012	0.000043					0.048	0.0023				
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000056	0.000043	J				0.0023	0.0023	U			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	0.000045	0.000045	U			E	0.0039	0.000081				E	0.00028	0.000043				E	0.0049	0.0023	J			E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.00034	0.000043				E	0.0044	0.0023	J			E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	0.000045	0.000045	U			E	0.0038	0.000081				E	0.0004	0.000043				E	0.0056	0.0023				E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	0.000045	0.000045	U			E	0.0033	0.000081				E	0.00041	0.000043				E	0.0075	0.0023				E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	0.000045	0.000045	U				0.0035	0.000081					0.00042	0.000043					0.007	0.0023				
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000043	0.000043	U				0.0023	0.0023	U			
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	0.000045	0.000045	U			E	0.081	0.000081				E	0.00018	0.000043				E	0.012	0.0023				E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	0.000045	0.000045	U			E	0.23	0.000081				E	0.00008	0.000043	J			E	0.017	0.0023				E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	0.000045	0.000045	U			E	0.43	0.000081				E	0.000043	0.000043	U			E	0.015	0.0023				E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	0.000045	0.000045	U			E	0.45	0.000081				E	0.00017	0.000043				E	0.014	0.0023				E
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	0.000045	0.000045	U			E	0.073	0.000081				E	0.00019	0.000043				E	0.012	0.0023				E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	0.000045	0.000045	U			E	0.32	0.000081				E	0.000092	0.000043	J			E	0.017	0.0023				E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	0.000045	0.000045	U			E	0.44	0.000081				E	0.000057	0.000043	J			E	0.013	0.0023				E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	0.000045	0.000045	U			E	0.43	0.000081				E	0.000046	0.000043	J			E	0.02	0.0023				E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	0.000045	0.000045	U			E	0.056	0.000081				E	0.00038	0.000043				E	0.028	0.0023				E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	0.000045	0.000045	U			E	0.22	0.000081				E	0.00019	0.000043				E	0.029	0.0023				E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	0.000045	0.000045	U			E	0.37	0.000081				E	0.00018	0.000043				E	0.023	0.0023				E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	0.000045	0.000045	U			E	0.36	0.000081				E	0.0002	0.000043				E	0.028	0.0023				E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	0.000077	0.000077	U			E	0.02	0.0071	J			E	0.0026	0.00014				E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.0025	0.00014				E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	0.00014	0.000077	J			E	0.01	0.0071	J			E	0.0024	0.00014				E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	0.00016	0.000077	J			E	0.077	0.0071				E	0.0025	0.00014				E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.000077	0.000077	U			E	0.0073	0.0071	J			E	0.0024	0.00014				E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.000077	0.000077	U			E	0.0091	0.0071	J			E	0.0027	0.00014				E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	0.000077	0.000077	U			E	0.025	0.0071				E	0.0025	0.00014				E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	0.000077	0.000077	U			E	0.014	0.0071	J			E	0.0023	0.00014				E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.000077	0.000077	U			E	0.0078	0.0071	J			E	0.0032	0.00014				E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	0.000077	0.000077	U			E	0.0081	0.0071	J			E	0.0033	0.00014				E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	0.000077	0.000077	U			E	0.017	0.0071	J			E	0.0029	0.00014				E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	0.000077	0.000077	U			E	0.0083	0.0071	J			E	0.0028	0.00014				E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	0.000077	0.000077	U			E	0.009	0.0071	J			E	0.0032	0.00014				E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.003	0.00014				E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.000077	0.000077	U			E	0.014	0.0071	J			E	0.0026	0.00014				E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.000077	0.000077	U			E	0.0096	0.0071	J			E	0.0028	0.00014				E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	0.000077	0.000077	U			E	0.0079	0.0071	J			E	0.0028	0.00014				E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0028	0.00014				E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	0.000077	0.000077	U			E	0.0086	0.0071	J			E	0.0029	0.00014				E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	0.000077	0.000077	U			E	0.0086	0.0071	J			E	0.0029	0.00014				E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	0.000077	0.000077	U				0.0074	0.0071	J				0.0029	0.00014				
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0031	0.00014				E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.000077	0.000077	U			E	0.079	0.0071				E	0.0031	0.00014				E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0028	0.00014				E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0027	0.00014				E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.00016	0.000077	J			E	0.019	0.0071	J			E	0.0028	0.00014				E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.000077	0.000077	U			E	0.0073	0.0071	J			E	0.0032	0.00014				E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	0.000077	0.000077	U			E	0.022	0.0071				E	0.003	0.00014				E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	0.000077	0.000077	U			E	0.027	0.0071				E	0.0025	0.00014				E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.000077	0.000077	U			E	0.0094	0.0071	J			E	0.0023	0.00014				E
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.0029	0.00014				E
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.003	0.00014				E
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	0.000077	0.000077	U			E	0.094	0.0071				E	0.0035	0.00014				E
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0028	0.00014				E
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0029	0.00014				E
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	0.0001	0.000077	J			E	0.0079	0.0071	J			E	0.0032	0.00014				E
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.000077	0.000077	U			E	0.0098	0.0071	J			E	0.0029	0.00014				E
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.000077	0.000077	U				0.011	0.0071	J				0.003	0.00014				
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.000077	0.000077	U			E	0.016	0.0071	J			E	0.0021	0.00014				E
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.000077	0.000077	U			E	0.02	0.0071	J			E	0.0023	0.00014				E
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	0.000077	0.000077	U			E	0.065	0.0071				E	0.0028	0.00014				E
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.000077	0.000077	U			E	0.014	0.0071	J			E	0.0022	0.00014				E
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0026	0.00014				E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.003	0.00014				E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0029	0.00014				E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	0.000077	0.000077	U			E	0.018	0.0071	J			E	0.0025	0.00014				E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.000077	0.000077	U			E	0.085	0.0071				E	0.0033	0.00014				E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	0.000077	0.000077	U			E	0.038	0.0071				E	0.0034	0.00014				E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	0.00008	0.000077	J			E	1.8	0.0071				E	0.0054	0.00014				E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0023	0.00014				E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.000077	0.000077	U			E	0.0096	0.0071	J			E	0.0036	0.00014				E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	0.000077	0.000077	U			E	0.016	0.0071	J			E	0.004	0.00014				E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.0032	0.00014				E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0028	0.00014				E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.000077	0.000077	U			E	0.042	0.0071				E	0.0025	0.00014				E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.000077	0.000077	U			E	0.023	0.0071				E	0.0025	0.00014				E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.00016	0.00016	U			E	0.15	0.008				E	0.0031	0.000083				E
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.0031	0.00014				E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	0.00003	0.00003	U			E	0.0035	0.00043				E	0.2	0.012				E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	0.00003	0.00003	U			E	0.005	0.00043				E	0.19	0.012				E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	0.00003	0.00003	U			E	0.0047	0.00043				E	0.18	0.012				E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	0.00005	0.00003	J			E	0.0051	0.00043				E	0.25	0.012				E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.00003	0.00003	U			E	0.0039	0.00043				E	0.12	0.012				E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.000036	0.00003	J			E	0.0057	0.00043				E	0.13	0.012				E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	0.00003	0.00003	U			E	0.006	0.00043				E	0.1	0.012				E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	0.00003	0.00003	U			E	0.005	0.00043				E	0.1	0.012				E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.00003	0.00003	U			E	0.0052	0.00043				E	0.12	0.012				E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	0.00003	0.00003	U			E	0.0046	0.00043				E	0.12	0.012				E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	0.00003	0.00003	U			E	0.0058	0.00043				E	0.096	0.012				E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	0.00003	0.00003	U			E	0.0041	0.00043				E	0.12	0.012				E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	0.000038	0.00003	J			E	0.0058	0.00043				E	0.074	0.012				E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	0.000039	0.00003	J			E	0.0052	0.00043				E	0.014	0.012	J			E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.00003	0.00003	U			E	0.0036	0.00043				E	0.012	0.012	U			E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.00003	0.00003	U			E	0.0029	0.00043				E	0.014	0.012	J			E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	0.00003	0.00003	U			E	0.0041	0.00043				E	0.016	0.012	J			E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.00003	0.00003	U			E	0.0035	0.00043				E	0.012	0.012	J			E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	0.000047	0.00003	J			E	0.0043	0.00043				E	0.012	0.012	U			E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	0.000033	0.00003	J			E	0.0044	0.00043				E	0.016	0.012	J			E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	0.00003	0.00003	U				0.0043	0.00043					0.012	0.012	U			
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.00005	0.00003	J			E	0.0066	0.00043				E	0.061	0.012				E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.00005	0.00003	J			E	0.0076	0.00043				E	0.13	0.012				E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	0.000037	0.00003	J			E	0.0048	0.00043				E	0.017	0.012	J			E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.00003	0.00003	U			E	0.014	0.00043				E	0.017	0.012	J			E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.000031	0.00003	J			E	0.0054	0.00043				E	0.053	0.012				E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.00005	0.00003	J			E	0.0052	0.00043				E	0.038	0.012	J			E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	0.000034	0.00003	J			E	0.01	0.00043				E	0.06	0.012				E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	0.000041	0.00003	J			E	0.013	0.00043				E	0.052	0.012				E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.00005	0.00003	J			E	0.0039	0.00043				E	0.012	0.012	U			E
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.000056	0.00003	J			E	0.0046	0.00043				E	0.012	0.012	U			E
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	0.000083	0.00003				E	0.0053	0.00043				E	0.012	0.012	J			E
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	0.00011	0.00003				E	0.01	0.00043				E	0.11	0.012				E
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.000059	0.00003	J			E	0.0033	0.00043				E	0.014	0.012	J			E
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.000076	0.00003	J			E	0.0036	0.00043				E	0.012	0.012	U			E
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	0.00011	0.00003				E	0.0057	0.00043				E	0.013	0.012	J			E
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.000067	0.00003	J			E	0.0065	0.00043				E	0.012	0.012	U			E
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.00003	0.00003	U				0.0065	0.00043					0.012	0.012	U			
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.000062	0.00003	J			E	0.0043	0.00043				E	0.016	0.012	J			E
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.000062	0.00003	J			E	0.0047	0.00043				E	0.024	0.012	J			E
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	0.000094	0.00003				E	0.0072	0.00043				E	0.095	0.012				E
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.000046	0.00003	J			E	0.0047	0.00043				E	0.015	0.012	J			E
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.00003	0.00003	U			E	0.0065	0.00043				E	0.055	0.012				E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.00003	0.00003	U			E	0.0056	0.00043				E	0.038	0.012	J			E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.000037	0.00003	J			E	0.0071	0.00043				E	0.034	0.012	J			E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	0.00005	0.00003	J			E	0.012	0.00043				E	0.041	0.012	J			E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.000031	0.00003	J			E	0.0067	0.00043				E	0.16	0.012				E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	0.000035	0.00003	J			E	0.0098	0.00043				E	0.059	0.012				E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	0.0001	0.00003				E	0.032	0.00043				E	2.1	0.012				E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.00003	0.00003	U			E	0.003	0.00043				E	0.017	0.012	J			E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.00003	0.00003	U			E	0.0064	0.00043				E	0.055	0.012				E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	0.00003	0.00003	U			E	0.0091	0.00043				E	0.065	0.012				E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.00003	0.00003	U			E	0.013	0.00043				E	0.051	0.012				E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.00003	0.00003	U			E	0.0024	0.00043				E	0.025	0.012	J			E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.000032	0.00003	J			E	0.0039	0.00043				E	0.13	0.012				E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.00003	0.00003	U			E	0.0022	0.00043				E	0.012	0.012	U			E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.00005	0.000016	J			E	0.0058	0.0005				E	0.17	0.012				E
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	0.00011	0.00003				E	0.0063	0.00043				E	0.024	0.012	J			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	0.000045	0.000045	U			E	0.0045	0.000081				E	0.00047	0.000043				E	0.0057	0.0023				E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	0.000045	0.000045	U			E	0.0041	0.000081				E	0.00028	0.000043				E	0.0048	0.0023	J			E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	0.000045	0.000045	U			E	0.0039	0.000081				E	0.00036	0.000043				E	0.0052	0.0023				E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	0.000045	0.000045	U			E	0.0039	0.000081				E	0.0006	0.000043				E	0.007	0.0023				E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	0.000045	0.000045	U			E	0.0045	0.000081				E	0.00024	0.000043				E	0.0046	0.0023	J			E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	0.000045	0.000045	U			E	0.0048	0.000081				E	0.0003	0.000043				E	0.0059	0.0023				E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.00038	0.000043				E	0.0068	0.0023				E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	0.000045	0.000045	U			E	0.0041	0.000081				E	0.00041	0.000043				E	0.0091	0.0023				E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	0.000045	0.000045	U			E	0.0049	0.000081				E	0.00026	0.000043				E	0.0072	0.0023				E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	0.000045	0.000045	U			E	0.0051	0.000081				E	0.00026	0.000043				E	0.0073	0.0023				E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.00039	0.000043				E	0.0081	0.0023				E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	0.000045	0.000045	U			E	0.0056	0.000081				E	0.00034	0.000043				E	0.0069	0.0023				E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	0.000045	0.000045	U			E	0.057	0.000081				E	0.00028	0.000043				E	0.0095	0.0023				E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	0.000045	0.000045	U			E	0.26	0.000081				E	0.000074	0.000043	J			E	0.014	0.0023				E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	0.000045	0.000045	U			E	0.45	0.000081				E	0.000043	0.000043	U			E	0.012	0.0023				E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	0.000045	0.000045	U			E	0.45	0.000081				E	0.000045	0.000043	J			E	0.01	0.0023				E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	0.000045	0.000045	U			E	0.45	0.000081				E	0.000045	0.000043	J			E	0.015	0.0023				E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	0.000045	0.000045	U			E	0.44	0.000081				E	0.000074	0.000043	J			E	0.011	0.0023				E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	0.000045	0.000045	U			E	0.43	0.000081				E	0.000053	0.000043	J			E	0.016	0.0023				E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	0.000045	0.000045	U			E	0.45	0.000081				E	0.000053	0.000043	J			E	0.015	0.0023				E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	0.000045	0.000045	U				0.44	0.000081					0.000049	0.000043	J				0.015	0.0023				
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.000045	0.000045	U				0.000089	0.000081	J				0.000043	0.000043	U				0.0023	0.0023	U			
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	0.000045	0.000045	U			E	0.079	0.000081				E	0.0003	0.000043				E	0.026	0.0023				E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	0.000045	0.000045	U			E	0.15	0.000081				E	0.00076	0.000043				E	0.032	0.0023				E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	0.000045	0.000045	U			E	0.32	0.000081				E	0.00012	0.000043				E	0.025	0.0023				E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	0.000045	0.000045	U			E	0.35	0.000081				E	0.00052	0.000043				E	0.027	0.0023				E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	0.000045	0.000045	U			E	0.0048	0.000081				E	0.00012	0.000043				E	0.0097	0.0023				E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	0.000045	0.000045	U			E	0.0045	0.000081				E	0.000078	0.000043	J			E	0.0045	0.0023	J			E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	0.000045	0.000045	U			E	0.0041	0.000081				E	0.00021	0.000043				E	0.0094	0.0023				E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	0.000045	0.000045	U			E	0.0038	0.000081				E	0.0002	0.000043				E	0.016	0.0023				E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	0.000045	0.000045	U			E	0.31	0.000081				E	0.000046	0.000043	J			E	0.017	0.0023				E
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	0.000045	0.000045	U			E	0.36	0.000081				E	0.000092	0.000043	J			E	0.017	0.0023				E
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	0.000045	0.000045	U			E	0.34	0.000081				E	0.00011	0.000043				E	0.027	0.0023				E
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	0.000045	0.000045	U			E	0.34	0.000081				E	0.0013	0.000043				E	0.035	0.0023				E
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	0.000045	0.000045	U			E	0.37	0.000081				E	0.000048	0.000043	J			E	0.018	0.0023				E
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	0.000045	0.000045	U			E	0.39	0.000081				E	0.000057	0.000043	J			E	0.019	0.0023				E
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	0.000045	0.000045	U			E	0.32	0.000081				E	0.00012	0.000043				E	0.034	0.0023				E
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	0.000045	0.000045	U			E	0.43	0.000081				E	0.00005	0.000043	J			E	0.016	0.0023				E
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	0.000045	0.000045	U				0.46	0.000081					0.000046	0.000043	J				0.017	0.0023				
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000043	0.000043	U				0.0023	0.0023	U			
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	0.000045	0.000045	U			E	0.22	0.000081				E	0.00026	0.000043				E	0.037	0.0023				E
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	0.000045	0.000045	U			E	0.25	0.000081				E	0.0004	0.000043				E	0.043	0.0023				E
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	0.000045	0.000045	U			E	0.2	0.000081				E	0.0014	0.000043				E	0.053	0.0023				E
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	0.000045	0.000045	U			E	0.32	0.000081				E	0.00013	0.000043				E	0.031	0.0023				E
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	0.000045	0.000045	U			E	0.0046	0.000081				E	0.00011	0.000043				E	0.0075	0.0023				E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	0.000045	0.000045	U			E	0.0049	0.000081				E	0.000091	0.000043	J			E	0.0053	0.0023				E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.00011	0.000043				E	0.0066	0.0023				E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	0.000045	0.000045	U			E	0.0037	0.000081				E	0.00017	0.000043				E	0.012	0.0023				E
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	0.000045	0.000045	U			E	0.0054	0.000081				E	0.00051	0.000043				E	0.01	0.0023				E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	0.000045	0.000045	U			E	0.0052	0.000081				E	0.00022	0.000043				E	0.016	0.0023				E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	0.000045	0.000045	U			E	0.0052	0.000081				E	0.0071	0.000043				E	0.053	0.0023				E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	0.000045	0.000045	U			E	0.006	0.000081				E	0.000043	0.000043	U			E	0.0041	0.0023	J			E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	0.000045	0.000045	U			E	0.0053	0.000081				E	0.00014	0.000043				E	0.0096	0.0023				E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	0.000045	0.000045	U			E	0.0051	0.000081				E	0.0002	0.000043				E	0.012	0.0023				E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	0.000045	0.000045	U			E	0.0051	0.000081				E	0.0003	0.000043				E	0.013	0.0023				E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	0.000045	0.000045	U			E	0.0059	0.000081				E	0.000043	0.000043	U			E	0.0041	0.0023	J			E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	0.000045	0.000045	U			E	0.41	0.000081				E	0.00022	0.000043				E	0.01	0.0023				E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	0.000045	0.000045	U			E	0.42	0.000081				E	0.000043	0.000043	U			E	0.0096	0.0023				E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	0.000045	0.000045	U			E	0.43	0.0019	P6			E	0.0021	0.000028				E	0.026	0.002				E
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	0.000045	0.000045	U			E	0.39	0.000081				E	0.0003	0.000043				E	0.039	0.0023				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	0.000077	0.000077	U			E	0.013	0.0071	J			E	0.0025	0.00014				E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.000077	0.000077	U			E	0.015	0.0071	J			E	0.0027	0.00014				E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.0032	0.00014				E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.0028	0.00014				E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.000077	0.000077	U			E	0.015	0.0071	J			E	0.0023	0.00014				E
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.000077	0.000077	U			E	0.014	0.0071	J			E	0.0024	0.00014				E
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.000077	0.000077	U			E	0.016	0.0071	J			E	0.0025	0.00014				E
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.000077	0.000077	U			E	0.012	0.0071	J			E	0.0028	0.00014				E
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.000077	0.000077	U				0.013	0.0071	J				0.0026	0.00014				
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	0.000077	0.000077	U			E	0.008	0.0071	J			E	0.0039	0.00014				E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	0.000077	0.000077	U			E	0.067	0.0071				E	0.0036	0.00014				E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	0.000077	0.000077	U			E	0.026	0.0071				E	0.0038	0.00014				E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	0.000077	0.000077	U			E	0.33	0.0071				E	0.0053	0.00014				E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	0.000077	0.000077	U			E	0.0085	0.0071	J			E	0.0044	0.00014				E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	0.000077	0.000077	U			E	0.0079	0.0071	J			E	0.0045	0.00014				E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	0.000077	0.000077	U			E	0.039	0.0071				E	0.0058	0.00014				E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	0.000077	0.000077	U			E	0.016	0.0071	J			E	0.0079	0.00014				E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0045	0.00014				E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0049	0.00014				E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	0.000077	0.000077	U			E	0.016	0.0071	J			E	0.007	0.00014				E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	0.000077	0.000077	U			E	0.014	0.0071	J			E	0.0037	0.00014				E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	0.000077	0.000077	U				0.0071	0.0071	U				0.0036	0.00014				
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.000077	0.000077	U				0.0071	0.0071	U				0.00014	0.00014	U			
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0033	0.00014				E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.003	0.00014				E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0046	0.00014				E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	0.000077	0.000077	U			E	0.0083	0.0071	J			E	0.0029	0.00014				E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.000077	0.000077	U			E	0.01	0.0071	J			E	0.004	0.00014				E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	0.000077	0.000077	U			E	0.011	0.0071	J			E	0.0038	0.00014				E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	0.00016	0.00016	U			E	0.043	0.008				E	0.0043	0.000083				E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	0.0002	0.00016	J			E	0.031	0.008				E	0.0041	0.000083				E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	0.00016	0.00016	U				0.031	0.008					0.0042	0.000083				
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U			
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.004	0.000083				E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	0.00016	0.00016	U			E	0.015	0.008	J			E	0.0041	0.000083				E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	0.00016	0.00016	U			E	0.031	0.008				E	0.005	0.000083				E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	0.00016	0.00016	U			E	0.082	0.008				E	0.0026	0.000083				E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	0.00016	0.00016	U			E	0.024	0.008				E	0.0043	0.000083				E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0032	0.000083				E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.00016	0.00016	U			E	0.2	0.008				E	0.0052	0.000083				E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0038	0.000083				E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	0.00016	0.00016	U			E	0.017	0.008	J			E	0.0035	0.000083				E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0036	0.000083				E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0045	0.000083				E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	0.00016	0.00016	U			E	0.039	0.008				E	0.013	0.000083				E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	0.00016	0.00016	U			E	0.0095	0.008	J			E	0.0046	0.000083				E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0048	0.000083				E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	0.00016	0.00016	U			E	0.28	0.008				E	0.0067	0.000083				E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0039	0.000083				E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	0.00019	0.000077	J			E	0.0071	0.0071	U			E	0.0031	0.00014				E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0027	0.00014				E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0033	0.00014				E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	0.000077	0.000077	U			E	0.0071	0.0071	U			E	0.0044	0.00014				E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.00016	0.00016	J			E	0.008	0.008	U			E	0.0022	0.000083				E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0029	0.000083				E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	0.00016	0.00016	U			E	0.021	0.008				E	0.0029	0.000083				E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	0.00016	0.00016	U			E	0.027	0.008				E	0.0029	0.000083				E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0043	0.000083				E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	0.00016	0.00016	U			E	0.0087	0.008	J			E	0.0068	0.000083				E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	0.00016	0.00016	U			E	0.011	0.008	J			E	0.0057	0.000083				E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	0.00016	0.00016	U			E	0.014	0.008	J			E	0.0036	0.000083				E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	0.000046	0.00003	J			E	0.0033	0.00043				E	0.012	0.012	U			E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.000058	0.00003	J			E	0.0038	0.00043				E	0.012	0.012	U			E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	0.0001	0.00003				E	0.0049	0.00043				E	0.012	0.012	J			E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	0.000075	0.00003	J			E	0.0066	0.00043				E	0.012	0.012	J			E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.00006	0.00003	J			E	0.0044	0.00043				E	0.019	0.012	J			E
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.000058	0.00003	J			E	0.0043	0.00043				E	0.017	0.012	J			E
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.000085	0.00003				E	0.0049	0.00043				E	0.02	0.012	J			E
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.00009	0.00003				E	0.0064	0.00043				E	0.02	0.012	J			E
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.000068	0.00003	J				0.0058	0.00043					0.021	0.012	J			
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.00003	0.00003	U				0.00047	0.00043	J				0.012	0.012	U			
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	0.00003	0.00003	U			E	0.0079	0.00043				E	0.033	0.012	J			E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	0.00003	0.00003	U			E	0.01	0.00043				E	0.1	0.012				E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	0.000048	0.00003	J			E	0.016	0.00043				E	0.084	0.012				E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	0.00006	0.00003	J			E	0.022	0.00043				E	0.59	0.012				E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	0.000056	0.00003	J			E	0.0054	0.00043				E	0.028	0.012	J			E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	0.000069	0.00003	J			E	0.0039	0.00043				E	0.013	0.012	J			E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	0.00015	0.00003				E	0.0063	0.00043				E	0.052	0.012				E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	0.00003	0.00003	U			E	0.0038	0.00043				E	0.1	0.012				E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	0.000046	0.00003	J			E	0.0033	0.00043				E	0.014	0.012	J			E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	0.0001	0.00003				E	0.0048	0.00043				E	0.012	0.012	U			E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	0.0001	0.00003				E	0.0054	0.00043				E	0.031	0.012	J			E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	0.00003	0.00003	U			E	0.0047	0.00043				E	0.016	0.012	J			E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	0.00003	0.00003	U				0.0051	0.00043					0.014	0.012	J			
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.000059	0.00003	J			E	0.0035	0.00043				E	0.028	0.012	J			E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	0.00014	0.00003				E	0.0062	0.00043				E	0.021	0.012	J			E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	0.00031	0.00003				E	0.0067	0.00043				E	0.026	0.012	J			E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	0.000074	0.00003	J			E	0.0071	0.00043				E	0.014	0.012	J			E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.00003	0.00003	U			E	0.0071	0.00043				E	0.03	0.012	J			E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	0.000031	0.00003	J			E	0.0089	0.00043				E	0.037	0.012	J			E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	0.000045	0.000016	J			E	0.012	0.0005				E	0.07	0.012				E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	0.00006	0.000016	J			E	0.013	0.0005				E	0.12	0.012				E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	0.000042	0.000016	J				0.013	0.0005					0.12	0.012				
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	0.000029	0.000016	J			E	0.0089	0.0005				E	0.029	0.012	J			E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	0.00005	0.000016	J			E	0.014	0.0005				E	0.044	0.012	J			E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	0.00006	0.000016	J			E	0.015	0.0005				E	0.12	0.012				E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	0.000018	0.000016	J			E	0.0051	0.0005				E	0.18	0.012				E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	0.000056	0.000016	J			E	0.011	0.0005				E	0.078	0.012				E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.000016	0.000016	U			E	0.0021	0.0005				E	0.012	0.012	U			E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.000051	0.000016	J			E	0.0071	0.0005				E	0.62	0.012				E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.000016	0.000016	U			E	0.0018	0.0005				E	0.023	0.012	J			E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	0.000065	0.000016	J			E	0.0057	0.0005				E	0.045	0.012	J			E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	0.00003	0.000016	J			E	0.0017	0.0005				E	0.012	0.012	U			E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	0.000089	0.000016				E	0.0038	0.0005				E	0.012	0.012	U			E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	0.00011	0.000016				E	0.0033	0.0005				E	0.51	0.012				E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	0.000071	0.000016	J			E	0.0036	0.0005				E	0.022	0.012	J			E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	0.00018	0.000016				E	0.0048	0.0005				E	0.012	0.012	U			E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	0.00024	0.000016				E	0.011	0.0005				E	0.3	0.012				E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	0.00014	0.000016				E	0.0085	0.0005				E	0.012	0.012	U			E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	0.00011	0.00003				E	0.0052	0.00043				E	0.019	0.012	J			E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	0.00011	0.00003				E	0.0048	0.00043				E	0.017	0.012	J			E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	0.00023	0.00003				E	0.0061	0.00043				E	0.019	0.012	J			E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	0.0002	0.00003				E	0.0055	0.00043				E	0.03	0.012	J			E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.000038	0.000016	J			E	0.0046	0.0005				E	0.038	0.012	J			E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.000032	0.000016	J			E	0.0078	0.0005				E	0.041	0.012	J			E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	0.000063	0.000016	J			E	0.02	0.0005				E	0.056	0.012				E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	0.000091	0.000016				E	0.021	0.0005				E	0.08	0.012				E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.00018	0.000016				E	0.0063	0.0005				E	0.012	0.012	U			E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	0.00027	0.000016				E	0.0082	0.0005				E	0.017	0.012	J			E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	0.00014	0.000016				E	0.008	0.0005				E	0.025	0.012	J			E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	0.000099	0.000016				E	0.0097	0.0005				E	0.021	0.012	J			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	0.000045	0.000045	U			E	0.37	0.000081				E	0.000043	0.000043	U			E	0.015	0.0023				E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	0.000045	0.000045	U			E	0.44	0.000081				E	0.000043	0.000043	U			E	0.015	0.0023				E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	0.000045	0.000045	U			E	0.35	0.000081				E	0.00012	0.000043				E	0.038	0.0023				E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	0.000045	0.000045	U			E	0.49	0.0016				E	0.000043	0.000043	U			E	0.035	0.0023				E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	0.000045	0.000045	U			E	0.25	0.000081				E	0.00022	0.000043				E	0.038	0.0023				E
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	0.000045	0.000045	U			E	0.25	0.000081				E	0.00025	0.000043				E	0.039	0.0023				E
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	0.000045	0.000045	U			E	0.22	0.000081				E	0.00043	0.000043				E	0.049	0.0023				E
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	0.000045	0.000045	U			E	0.28	0.000081				E	0.00037	0.000043				E	0.043	0.0023				E
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	0.000045	0.000045	U				0.26	0.000081					0.00036	0.000043					0.04	0.0023				
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000043	0.000043	U				0.0023	0.0023	U			
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	0.000045	0.000045	U			E	0.0047	0.000081				E	0.00012	0.000043				E	0.0091	0.0023				E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	0.000045	0.000045	U			E	0.005	0.000081				E	0.00038	0.000043				E	0.0092	0.0023				E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	0.000045	0.000045	U			E	0.0042	0.000081				E	0.00032	0.000043				E	0.024	0.0023				E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	0.000045	0.000045	U			E	0.0047	0.000081				E	0.0015	0.000043				E	0.054	0.0023				E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	0.000045	0.000045	U			E	0.18	0.000081				E	0.00023	0.000043				E	0.024	0.0023				E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	0.000045	0.000045	U			E	0.32	0.000081				E	0.00018	0.000043				E	0.028	0.0023				E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	0.000045	0.000045	U			E	0.2	0.000081				E	0.0013	0.000043				E	0.041	0.0023				E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	0.000045	0.000045	U			E	0.14	0.000081				E	0.00083	0.000043				E	0.015	0.0023				E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	0.000045	0.000045	U			E	0.22	0.000081				E	0.00014	0.000043				E	0.02	0.0023				E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	0.000045	0.000045	U			E	0.28	0.000081				E	0.00023	0.000043				E	0.031	0.0023				E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	0.000045	0.000045	U			E	0.14	0.000081				E	0.00096	0.000043				E	0.036	0.0023				E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	0.000045	0.000045	U			E	0.38	0.000081				E	0.0001	0.000043				E	0.02	0.0023				E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	0.000045	0.000045	U				0.37	0.000081					0.0001	0.000043					0.019	0.0023				
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.000045	0.000045	U				0.000081	0.000081	U				0.000043	0.000043	U				0.0023	0.0023	U			
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	0.000045	0.000045	U			E	0.16	0.000081				E	0.0006	0.000043				E	0.043	0.0023				E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	0.000045	0.000045	U			E	0.12	0.000081				E	0.0012	0.000043				E	0.057	0.0023				E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	0.000045	0.000045	U			E	0.054	0.000081				E	0.0023	0.000043				E	0.072	0.0023				E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	0.000045	0.000045	U			E	0.29	0.000081				E	0.00018	0.000043				E	0.037	0.0023				E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	0.000045	0.000045	U			E	0.0047	0.000081				E	0.000079	0.000043	J			E	0.006	0.0023				E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	0.000045	0.000045	U			E	0.0046	0.000081				E	0.00015	0.000043				E	0.0092	0.0023				E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	0.000045	0.000045	U			E	0.0048	0.000094				E	0.00031	0.000028				E	0.01	0.002				E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	0.000045	0.000045	U			E	0.0041	0.000094				E	0.00042	0.000028				E	0.029	0.002				E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	0.000045	0.000045	U				0.0042	0.000094					0.00042	0.000028					0.03	0.002				
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	0.000045	0.000045	U			E	0.0061	0.000094				E	0.00013	0.000028				E	0.01	0.002				E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	0.000045	0.000045	U			E	0.0057	0.000094				E	0.00024	0.000028				E	0.014	0.002				E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	0.000045	0.000045	U			E	0.0052	0.000094				E	0.00042	0.000028				E	0.028	0.002				E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	0.000045	0.000045	U			E	0.0062	0.000094				E	0.00043	0.000028				E	0.0068	0.002				E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	0.000045	0.000045	U			E	0.0054	0.000094				E	0.0004	0.000028				E	0.025	0.002				E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	0.000045	0.000045	U			E	0.0067	0.000094				E	0.000028	0.000028	U			E	0.004	0.002	J			E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	0.000045	0.000045	U			E	0.0068	0.000094				E	0.0021	0.000028				E	0.013	0.002				E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	0.000045	0.000045	U			E	0.0067	0.000094				E	0.000045	0.000028	J			E	0.003	0.002	J			E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	0.000045	0.000045	U			E	0.18	0.000094				E	0.00034	0.000028				E	0.02	0.002				E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	0.000045	0.000045	U			E	0.37	0.000094				E	0.000067	0.000028	J			E	0.018	0.002				E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	0.000045	0.000045	U			E	0.32	0.000094				E	0.00022	0.000028				E	0.024	0.002				E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	0.000045	0.000045	U			E	0.059	0.000094				E	0.0051	0.000028				E	0.018	0.002				E
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.00024	0.000028				E	0.018	0.002				E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	0.000045	0.000045	U			E	0.34	0.000094				E	0.00013	0.000028				E	0.028	0.002				E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	0.000045	0.000045	U			E	0.21	0.000094				E	0.0075	0.000028				E	0.061	0.002				E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	0.000045	0.000045	U			E	0.4	0.000094				E	0.000048	0.000028	J			E	0.025	0.002				E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	0.000045	0.000045	U			E	0.13	0.000081				E	0.00047	0.000028				E	0.038	0.0023				E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	0.000048	0.000045	J			E	0.17	0.000081				E	0.00067	0.000028				E	0.044	0.0023				E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	0.000045	0.000045	U			E	0.077	0.000081				E	0.0016	0.000043				E	0.059	0.0023				E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	0.000047	0.000045	J			E	0.12	0.000081				E	0.0015	0.000043				E	0.049	0.0023				E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	0.000045	0.000045	U			E	0.0045	0.000094				E	0.000044	0.000028	J	UJ	FB	S	0.0067	0.002				E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	0.000045	0.000045	U			E	0.0047	0.000094				E	0.000089	0.000028	J	UJ	FB	S	0.0095	0.002				E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	0.000045	0.000045	U			E	0.0044	0.000094				E	0.00025	0.000028		J+	FB	S	0.026	0.002				E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	0.000045	0.000045	U			E	0.0054	0.000094				E	0.00036	0.000028		J+	FB	S	0.042	0.002				E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	0.000045	0.000045	U			E	0.36	0.000094				E	0.00025	0.000028		J+	FB	S	0.041	0.002				E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.0007	0.000028				E	0.039	0.002				E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	0.000045	0.000045	U			E	0.16	0.000094				E	0.00073	0.000028				E	0.027	0.002				E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	0.000045	0.000045	U			E	0.31	0.000094				E	0.00023	0.000028		J+	FB	S	0.02	0.002				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0044	0.000083				E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	0.00016	0.00016	U			E	0.023	0.008				E	0.008	0.000083				E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	0.00016	0.00016	U			E	0.01	0.008	J			E	0.004	0.000083				E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.00016	0.00016	U			E	0.022	0.008				E	0.0033	0.000083				E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.00016	0.00016	U				0.021	0.008					0.0032	0.000083				
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U			
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	0.00016	0.00016	U			E	0.0097	0.008	J			E	0.0039	0.000083				E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	0.00016	0.00016	U			E	0.017	0.008	J			E	0.0067	0.000083				E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0032	0.000083				E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.00016	0.00016	U			E	0.022	0.008				E	0.0025	0.000083				E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0021	0.000083				E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0027	0.000083				E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	0.00018	0.00016	J			E	0.031	0.008				E	0.0037	0.000083				E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	0.00016	0.00016	U			E	0.024	0.008				E	0.0033	0.000083				E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	0.00016	0.00016	U				0.022	0.008					0.0034	0.000083				
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U			
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	0.00016	0.00016	U			E	0.015	0.008	J			E	0.004	0.000083				E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	0.00016	0.00016	U			E	0.033	0.008				E	0.0045	0.000083				E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	0.00016	0.00016	U			E	0.014	0.008	J			E	0.0035	0.000083				E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0022	0.000083				E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0035	0.000083				E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.00016	0.00016	U			E	0.019	0.008	J			E	0.0033	0.000083				E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0032	0.000083				E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0039	0.000083				E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	0.00016	0.00016	U			E	0.012	0.008	J			E	0.0037	0.000083				E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	0.00016	0.00016	U			E	0.044	0.008				E	0.0047	0.000083				E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.00016	0.00016	U			E	0.017	0.008	J			E	0.0031	0.000083				E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	0.00016	0.00016	U			E	0.022	0.008				E	0.003	0.000083				E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	0.00016	0.00016	U			E	0.0084	0.008	J			E	0.0048	0.000083				E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	0.00016	0.00016	U			E	0.026	0.008				E	0.0082	0.000083				E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	0.00016	0.00016	U			E	0.012	0.008	J			E	0.004	0.000083				E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.00016	0.00016	U			E	0.024	0.008				E	0.0032	0.000083				E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0036	0.000083				E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	0.00016	0.00016	U			E	0.01	0.008	J			E	0.006	0.000083				E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	0.00016	0.00016	U			E	0.0099	0.008	J			E	0.0033	0.000083				E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.00016	0.00016	U			E	0.016	0.008	J			E	0.0027	0.000083				E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	0.00016	0.00016	U			E	0.038	0.008				E	0.0022	0.000083				E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.002	0.000083				E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.002	0.000083				E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0021	0.000083				E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	0.00016	0.00016	U			E	0.012	0.008	J			E	0.0038	0.000083				E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	0.00016	0.00016	U			E	0.011	0.008	J			E	0.0038	0.000083				E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	0.00016	0.00016	U			E	0.0094	0.008	J			E	0.003	0.000083				E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	0.00016	0.00016	U			E	0.01	0.008	J			E	0.0031	0.000083				E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	0.00016	0.00016	U			E	0.01	0.008	J			E	0.0037	0.000083				E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	0.00016	0.00016	U			E	0.0095	0.008	J			E	0.0039	0.000083				E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	0.00016	0.00016	U			E	0.016	0.008	J			E	0.0032	0.000083				E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.00016	0.00016	U			E	0.012	0.008	J			E	0.0027	0.000083				E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.00016	0.00016	U				0.013	0.008	J				0.0027	0.000083				
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U			
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	0.00016	0.00016	U			E	0.016	0.008	J			E	0.0031	0.000083				E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	0.00016	0.00016	U			E	0.015	0.008	J			E	0.0031	0.000083				E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	0.00016	0.00016	U			E	0.018	0.008	J			E	0.0025	0.000083				E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.00016	0.00016	U			E	0.018	0.008	J			E	0.0023	0.000083				E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.0002	0.000016				E	0.0052	0.0005				E	0.012	0.012	U			E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	0.00029	0.000016				E	0.012	0.0005				E	0.16	0.012				E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	0.00015	0.000016				E	0.011	0.0005				E	0.02	0.012	J			E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.00004	0.000016	J			E	0.0033	0.0005				E	0.012	0.012	U			E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.000033	0.000016	J				0.0033	0.0005					0.012	0.012	U			
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	0.00027	0.000016				E	0.0078	0.0005				E	0.016	0.012	J			E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	0.00028	0.000016				E	0.0086	0.0005				E	0.033	0.012	J			E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	0.00015	0.000016				E	0.011	0.0005				E	0.021	0.012	J			E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.00003	0.000016	J			E	0.0033	0.0005				E	0.012	0.012	U			E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.000016	0.000016	J			E	0.0048	0.0005				E	0.033	0.012	J			E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.000034	0.000016	J			E	0.0068	0.0005				E	0.037	0.012	J			E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	0.000063	0.000016	J			E	0.013	0.0005				E	0.06	0.012				E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	0.000067	0.000016	J			E	0.017	0.0005				E	0.069	0.012				E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	0.000066	0.000016	J				0.018	0.0005					0.059	0.012				
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	0.000042	0.000016	J			E	0.0089	0.0005				E	0.061	0.012				E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	0.000052	0.000016	J			E	0.0088	0.0005				E	0.094	0.012				E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	0.000023	0.000016	J			E	0.0048	0.0005				E	0.068	0.012				E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.000024	0.000016	J			E	0.0028	0.0005				E	0.032	0.012	J			E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.000025	0.000016	J			E	0.0031	0.0005				E	0.05	0.012				E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.000059	0.000016	J			E	0.0045	0.0005				E	0.039	0.012	J			E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.000028	0.000016	J			E	0.0037	0.0005				E	0.041	0.012	J			E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.000026	0.000016	J			E	0.004	0.0005				E	0.034	0.012	J			E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	0.0001	0.000016				E	0.0035	0.0005				E	0.026	0.012	J			E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	0.00024	0.000016				E	0.0044	0.0005				E	0.035	0.012	J			E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.000035	0.000016	J			E	0.0035	0.0005				E	0.012	0.012	U			E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	0.000046	0.000016	J			E	0.0034	0.0005				E	0.012	0.012	U			E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	0.00022	0.000016				E	0.0052	0.0005				E	0.012	0.012	U			E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	0.00016	0.000016				E	0.011	0.0005				E	0.035	0.012	J			E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	0.00018	0.000016				E	0.01	0.0005				E	0.017	0.012	J			E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.000046	0.000016	J			E	0.0058	0.0005				E	0.012	0.012	U			E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	0.00026	0.000016				E	0.007	0.0005				E	0.014	0.012	J			E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	0.00031	0.000016				E	0.011	0.0005				E	0.023	0.012	J			E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	0.00018	0.000016				E	0.012	0.0005				E	0.016	0.012	J			E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.000088	0.000016				E	0.016	0.0005				E	0.012	0.012	U			E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	0.000046	0.000016	J			E	0.014	0.0005				E	0.054	0.012				E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.000027	0.000016	J			E	0.0036	0.0005				E	0.036	0.012	J			E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.000028	0.000016	J			E	0.0047	0.0005				E	0.055	0.012				E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.000039	0.000016	J			E	0.0054	0.0005				E	0.04	0.012	J			E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	0.000066	0.000016	J			E	0.0075	0.0005				E	0.057	0.012				E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	0.000066	0.000016	J			E	0.0064	0.0005				E	0.024	0.012	J			E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	0.00014	0.000016				E	0.0049	0.0005				E	0.013	0.012	J			E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	0.00012	0.000016				E	0.0086	0.0005				E	0.013	0.012	J			E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	0.000064	0.000016	J			E	0.0062	0.0005				E	0.026	0.012	J			E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	0.000081	0.000016				E	0.0057	0.0005				E	0.022	0.012	J			E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	0.00013	0.000016				E	0.0077	0.0005				E	0.022	0.012	J			E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.000054	0.000016	J			E	0.0033	0.0005				E	0.012	0.012	U			E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.000057	0.000016	J				0.0034	0.0005					0.012	0.012	U			
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	0.000099	0.000016				E	0.0061	0.0005				E	0.033	0.012	J			E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	0.000096	0.000016				E	0.0051	0.0005				E	0.034	0.012	J			E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	0.00012	0.000016				E	0.0069	0.0005				E	0.018	0.012	J			E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.000063	0.000016	J			E	0.0041	0.0005				E	0.013	0.012	J			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	0.000045	0.000045	U			E	0.31	0.000094				E	0.0002	0.000028		J+	FB	S	0.046	0.002				E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	0.000045	0.000045	U			E	0.069	0.000094				E	0.0038	0.000028				E	0.65	0.002				E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.00053	0.000028				E	0.03	0.002				E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	0.000045	0.000045	U			E	0.42	0.000094				E	0.000065	0.000028	J	UJ	FB	S	0.023	0.002				E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	0.000045	0.000045	U				0.42	0.000094					0.000078	0.000028	J	UJ	FB		0.023	0.002				
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000046	0.000028	J				0.002	0.002	U			
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	0.000045	0.000045	U			E	0.15	0.000094				E	0.00078	0.000028				E	0.061	0.002				E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	0.000045	0.000045	U			E	0.046	0.000094				E	0.0017	0.000028				E	0.038	0.002				E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	0.000045	0.000045	U			E	0.15	0.000094				E	0.00063	0.000028				E	0.045	0.002				E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	0.000045	0.000045	U			E	0.22	0.000094				E	0.00024	0.000028		J+	FB	S	0.036	0.002				E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	0.000045	0.000045	U			E	0.0044	0.000094				E	0.000098	0.000028	J	UJ	FB	S	0.0051	0.002				E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	0.000045	0.000045	U			E	0.0049	0.000094				E	0.00016	0.000028		J+	FB	S	0.0087	0.002				E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	0.000045	0.000045	U			E	0.0043	0.000094				E	0.00032	0.000028		J+	FB	S	0.012	0.002				E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	0.000045	0.000045	U			E	0.0041	0.000094				E	0.00047	0.000028				E	0.022	0.002				E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	0.000045	0.000045	U				0.0041	0.000094					0.00048	0.000028					0.023	0.002				
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000039	0.000028	J				0.002	0.002	U			
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	0.000045	0.000045	U			E	0.0063	0.000094				E	0.00038	0.000028				E	0.015	0.002				E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	0.000045	0.000045	U			E	0.0058	0.000094				E	0.0006	0.000028				E	0.019	0.002				E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	0.000045	0.000045	U			E	0.0058	0.000094				E	0.00041	0.000028				E	0.014	0.002				E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	0.000045	0.000045	U			E	0.0064	0.000094				E	0.00008	0.000028	J			E	0.017	0.002				E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	0.000045	0.000045	U			E	0.0068	0.000094				E	0.00011	0.000028				E	0.0055	0.002				E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	0.000045	0.000045	U			E	0.0068	0.000094				E	0.00011	0.000028				E	0.008	0.002				E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	0.000045	0.000045	U			E	0.0067	0.000094				E	0.00011	0.000028				E	0.004	0.002	J			E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	0.000045	0.000045	U			E	0.0074	0.000094				E	0.000099	0.000028	J			E	0.011	0.002				E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	0.000045	0.000045	U			E	0.41	0.000094				E	0.0003	0.000028				E	0.02	0.002				E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	0.000045	0.000045	U			E	0.37	0.000094				E	0.0019	0.000028				E	0.036	0.002				E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	0.000045	0.000045	U			E	0.39	0.000094				E	0.00027	0.000028				E	0.0097	0.002				E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	0.000045	0.000045	U			E	0.43	0.000094				E	0.00026	0.000028				E	0.013	0.002				E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	0.000045	0.000045	U			E	0.35	0.000094				E	0.00027	0.000028				E	0.04	0.002				E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	0.000045	0.000045	U			E	0.057	0.000094				E	0.0021	0.000028				E	0.021	0.002				E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	0.000045	0.000045	U			E	0.2	0.000094				E	0.00054	0.000028				E	0.034	0.002				E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	0.000045	0.000045	U			E	0.47	0.000094				E	0.00004	0.000028	J			E	0.0077	0.002				E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	0.000045	0.000045	U			E	0.18	0.000094				E	0.00066	0.000028				E	0.055	0.002				E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	0.000045	0.000045	U			E	0.068	0.000094				E	0.0013	0.000028				E	0.042	0.002				E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	0.000045	0.000045	U			E	0.14	0.000094				E	0.00059	0.000028				E	0.043	0.002				E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	0.000045	0.000045	U			E	0.25	0.000094				E	0.00078	0.000028				E	0.041	0.002				E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	0.000045	0.000045	U			E	0.0019	0.000094				E	0.00048	0.000028				E	0.0079	0.002				E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	0.000045	0.000045	U			E	0.0045	0.000094				E	0.000041	0.000028	J			E	0.0036	0.002	J			E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	0.000045	0.000045	U			E	0.0047	0.000094				E	0.000072	0.000028	J			E	0.0064	0.002				E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	0.000045	0.000045	U			E	0.0045	0.000094				E	0.0001	0.000028				E	0.012	0.002				E
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	0.000045	0.000045	U			E	0.11	0.000094				E	0.00033	0.000028				E	0.015	0.002				E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	0.000045	0.000045	U			E	0.13	0.000094				E	0.00036	0.000028				E	0.017	0.002				E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	0.000045	0.000045	U			E	0.18	0.000094				E	0.00032	0.000028				E	0.028	0.002				E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	0.000045	0.000045	U			E	0.18	0.000094				E	0.00036	0.000028				E	0.024	0.002				E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	0.000045	0.000045	U			E	0.1	0.000094				E	0.00029	0.000028				E	0.016	0.002				E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	0.000045	0.000045	U			E	0.2	0.000094				E	0.00028	0.000028				E	0.022	0.002				E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	0.000045	0.000045	U			E	0.073	0.000094				E	0.00061	0.000028				E	0.027	0.002				E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	0.000045	0.000045	U			E	0.31	0.000094				E	0.000028	0.000028	U			E	0.017	0.002				E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	0.000045	0.000045	U				0.32	0.000094					0.000033	0.000028	J				0.017	0.002				
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	0.000045	0.000045	U			E	0.071	0.000094				E	0.00044	0.000028				E	0.028	0.002				E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	0.000045	0.000045	U			E	0.13	0.000094				E	0.00045	0.000028				E	0.038	0.002				E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	0.000045	0.000045	U			E	0.042	0.000094				E	0.00073	0.000028				E	0.046	0.002				E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.00017	0.000028				E	0.031	0.002				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	0.00016	0.00016	U			E	0.027	0.008				E	0.0021	0.000083				E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	0.00016	0.00016	U			E	0.018	0.008	J			E	0.002	0.000083				E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0018	0.000083				E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.00016	0.00016	U			E	0.0086	0.008	J			E	0.0021	0.000083				E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	0.00016	0.00016	U			E	0.016	0.008	J			E	0.0032	0.000083				E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	0.00016	0.00016	U			E	0.025	0.008				E	0.003	0.000083				E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	0.00016	0.00016	U			E	0.024	0.008				E	0.0025	0.000083				E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0017	0.000083				E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	0.00016	0.00016	U			E	0.021	0.008				E	0.003	0.000083				E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0024	0.000083				E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0025	0.000083				E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0025	0.000083				E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	0.00016	0.00016	U			E	0.0099	0.008	J			E	0.003	0.000083				E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	0.00016	0.00016	U			E	0.0084	0.008	J			E	0.0028	0.000083				E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	0.00016	0.00016	U			E	0.0095	0.008	J			E	0.0024	0.000083				E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	0.00016	0.00016	U			E	0.021	0.008				E	0.0036	0.000083				E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	0.00016	0.00016	U				0.021	0.008					0.0036	0.000083				
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U			
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	0.00016	0.00016	U			E	0.011	0.008	J			E	0.0032	0.000083				E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0034	0.000083				E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	0.00016	0.00016	U			E	0.014	0.008	J			E	0.0027	0.000083				E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0022	0.000083				E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	0.00016	0.00016	U			E	0.016	0.008	J			E	0.003	0.000083				E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	0.00016	0.00016	U			E	0.014	0.008	J			E	0.003	0.000083				E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.00016	0.00016	U			E	0.018	0.008	J			E	0.0024	0.000083				E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0025	0.000083				E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0039	0.000083				E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	0.00016	0.00016	U			E	0.012	0.008	J			E	0.0037	0.000083				E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	0.00016	0.00016	U			E	0.01	0.008	J			E	0.0031	0.000083				E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	0.00016	0.00016	U			E	0.012	0.008	J			E	0.0032	0.000083				E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	0.00016	0.00016	U			E	0.01	0.008	J			E	0.0037	0.000083				E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	0.00016	0.00016	U			E	0.015	0.008	J			E	0.0031	0.000083				E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	0.00016	0.00016	U			E	0.014	0.008	J			E	0.0037	0.000083				E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	0.00016	0.00016	U			E	0.0095	0.008	J			E	0.0027	0.000083				E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	0.00016	0.00016	U				0.0097	0.008	J				0.003	0.000083				
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U			
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	0.00016	0.00016	U			E	0.015	0.008	J			E	0.003	0.000083				E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.003	0.000083				E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	0.00016	0.00016	U			E	0.016	0.008	J			E	0.0026	0.000083				E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.00016	0.00016	U			E	0.015	0.008	J			E	0.0024	0.000083				E
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	0.00016	0.00016	U			E	0.016	0.008	J			E	0.0032	0.000083				E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0027	0.000083				E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0027	0.000083				E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0025	0.000083				E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.00016	0.00016	U				0.008	0.008	U				0.0026	0.000083				
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U			
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	0.00019	0.00016	J			E	0.017	0.008	J			E	0.0041	0.000083				E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	0.00016	0.00016	U			E	0.021	0.008				E	0.0039	0.000083				E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	0.00016	0.00016	U			E	0.015	0.008	J			E	0.0032	0.000083				E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.00016	0.00016	U			E	0.018	0.008	J			E	0.0034	0.000083				E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	0.00016	0.00016	U			E	0.58	0.008				E	0.0059	0.000083				E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	0.00016	0.00016	U			E	0.017	0.008	J			E	0.0035	0.000083				E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.00016	0.00016	U			E	0.016	0.008	J			E	0.003	0.000083				E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	0.00016	0.00016	U			E	0.017	0.008	J			E	0.0032	0.000083				E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	0.00016	0.00016	U			E	0.012	0.008	J			E	0.0031	0.000083				E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	0.00016	0.00016	U			E	1.3	0.008				E	0.0047	0.000083				E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	0.00016	0.00016	U			E	0.023	0.008				E	0.0022	0.000083				E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	0.00016	0.00016	U			E	0.71	0.008				E	0.0029	0.000083				E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	0.000031	0.000016	J			E	0.01	0.0005				E	0.044	0.012	J			E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	0.000044	0.000016	J			E	0.009	0.0005				E	0.041	0.012	J			E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.000026	0.000016	J			E	0.0032	0.0005				E	0.036	0.012	J			E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.000022	0.000016	J			E	0.0048	0.0005				E	0.051	0.012				E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	0.000028	0.000016	J			E	0.0077	0.0005				E	0.044	0.012	J			E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	0.000037	0.000016	J			E	0.0083	0.0005				E	0.059	0.012				E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	0.000038	0.000016	J			E	0.0062	0.0005				E	0.06	0.012				E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.000018	0.000016	J			E	0.0023	0.0005				E	0.031	0.012	J			E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	0.000038	0.000016	J			E	0.0095	0.0005				E	0.059	0.012				E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.000021	0.000016	J			E	0.0029	0.0005				E	0.038	0.012	J			E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.000033	0.000016	J			E	0.0028	0.0005				E	0.042	0.012	J			E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.00002	0.000016	J			E	0.0036	0.0005				E	0.025	0.012	J			E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	0.000055	0.000016	J			E	0.0059	0.0005				E	0.033	0.012	J			E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	0.000069	0.000016	J			E	0.005	0.0005				E	0.019	0.012	J			E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	0.00011	0.000016				E	0.0046	0.0005				E	0.016	0.012	J			E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	0.00011	0.000016				E	0.0052	0.0005				E	0.068	0.012				E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	0.00011	0.000016					0.0051	0.0005					0.066	0.012				
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	0.000092	0.000016				E	0.012	0.0005				E	0.031	0.012	J			E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	0.000073	0.000016	J			E	0.0058	0.0005				E	0.025	0.012	J			E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	0.00014	0.000016				E	0.0068	0.0005				E	0.021	0.012	J			E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.000095	0.000016				E	0.0038	0.0005				E	0.012	0.012	U			E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	0.000081	0.000016				E	0.0066	0.0005				E	0.028	0.012	J			E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	0.000094	0.000016				E	0.0058	0.0005				E	0.024	0.012	J			E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.00012	0.000016				E	0.0059	0.0005				E	0.017	0.012	J			E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	0.00013	0.000016				E	0.0073	0.0005				E	0.015	0.012	J			E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	0.000086	0.000016				E	0.011	0.0005				E	0.064	0.012				E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	0.000075	0.000016	J			E	0.01	0.0005				E	0.055	0.012				E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	0.00015	0.000016				E	0.0069	0.0005				E	0.03	0.012	J			E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	0.00013	0.000016				E	0.009	0.0005				E	0.031	0.012	J			E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	0.000071	0.000016	J			E	0.0098	0.0005				E	0.055	0.012				E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	0.00014	0.000016				E	0.0092	0.0005				E	0.03	0.012	J			E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	0.000084	0.000016				E	0.011	0.0005				E	0.058	0.012				E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	0.000076	0.000016	J			E	0.0042	0.0005				E	0.017	0.012	J			E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	0.000079	0.000016	J				0.0044	0.0005					0.021	0.012	J			
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	0.000072	0.000016	J			E	0.0083	0.0005				E	0.046	0.012	J			E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	0.000087	0.000016				E	0.0083	0.0005				E	0.037	0.012	J			E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	0.00012	0.000016				E	0.0076	0.0005				E	0.025	0.012	J			E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.000066	0.000016	J			E	0.0046	0.0005				E	0.019	0.012	J			E
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	0.000037	0.000016	J			E	0.0065	0.0005				E	0.096	0.012				E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.000024	0.000016	J			E	0.0037	0.0005				E	0.064	0.012				E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.000028	0.000016	J			E	0.0033	0.0005				E	0.062	0.012				E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.000026	0.000016	J			E	0.0036	0.0005				E	0.049	0.012	J			E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.000024	0.000016	J				0.0038	0.0005					0.054	0.012				
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	0.000088	0.000016				E	0.014	0.0005				E	0.076	0.012				E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	0.0001	0.000016				E	0.014	0.0005				E	0.068	0.012				E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	0.00022	0.000016				E	0.011	0.0005				E	0.033	0.012	J			E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.00012	0.000016				E	0.0096	0.0005				E	0.029	0.012	J			E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	0.00022	0.000016				E	0.033	0.0005				E	0.81	0.012				E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	0.000081	0.000016				E	0.0097	0.0005				E	0.045	0.012	J			E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.00015	0.000016				E	0.0072	0.0005				E	0.028	0.012	J			E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	0.00013	0.000016				E	0.0096	0.0005				E	0.03	0.012	J			E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	0.000028	0.000016	J			E	0.006	0.0005				E	0.04	0.012	J			E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	0.0001	0.000016				E	0.024	0.0005				E	1.7	0.012				E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	0.00005	0.000016	J			E	0.0093	0.0005				E	0.032	0.012	J			E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	0.000081	0.000016				E	0.018	0.0005				E	0.82	0.012				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	0.000045	0.000045	U			E	0.002	0.000094				E	0.00028	0.000028				E	0.0061	0.002				E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	0.000045	0.000045	U			E	0.0031	0.000094				E	0.00031	0.000028				E	0.0085	0.002				E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	0.000045	0.000045	U			E	0.0045	0.000094				E	0.000053	0.000028	J			E	0.0032	0.002	J			E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	0.000045	0.000045	U			E	0.0046	0.000094				E	0.000093	0.000028	J			E	0.0083	0.002				E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	0.000045	0.000045	U			E	0.0043	0.000094				E	0.00023	0.000028				E	0.0085	0.002				E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	0.000045	0.000045	U			E	0.0031	0.000094				E	0.00039	0.000028				E	0.0088	0.002				E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	0.000045	0.000045	U			E	0.0035	0.000094				E	0.00038	0.000028				E	0.01	0.002				E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	0.000045	0.000045	U			E	0.0061	0.000094				E	0.000049	0.000028	J			E	0.0073	0.002				E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	0.000045	0.000045	U			E	0.0036	0.000094				E	0.00045	0.000028				E	0.01	0.002				E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	0.000045	0.000045	U			E	0.0058	0.000094				E	0.000066	0.000028	J			E	0.0079	0.002				E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	0.000045	0.000045	U			E	0.0064	0.000094				E	0.000057	0.000028	J			E	0.0088	0.002				E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	0.000045	0.000045	U			E	0.0066	0.000094				E	0.000033	0.000028	J			E	0.0078	0.002				E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	0.000045	0.000045	U			E	0.082	0.000094				E	0.00033	0.000028				E	0.012	0.002				E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	0.000045	0.000045	U			E	0.14	0.000094				E	0.00031	0.000028				E	0.014	0.002				E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.00043	0.000028				E	0.029	0.002				E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	0.000045	0.000045	U			E	0.25	0.000094				E	0.00075	0.000028				E	0.043	0.002				E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	0.000045	0.000045	U				0.25	0.000094					0.00077	0.000028					0.042	0.002				
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	0.000045	0.000045	U			E	0.1	0.000094				E	0.00053	0.000028				E	0.019	0.002				E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	0.000045	0.000045	U			E	0.15	0.000094				E	0.00064	0.000028				E	0.02	0.002				E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	0.000045	0.000045	U			E	0.077	0.000094				E	0.00064	0.000028				E	0.028	0.002				E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	0.000045	0.000045	U			E	0.32	0.000094				E	0.000032	0.000028	J			E	0.016	0.002				E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	0.000045	0.000045	U			E	0.07	0.000094				E	0.00044	0.000028				E	0.029	0.002				E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	0.000045	0.000045	U			E	0.084	0.000094				E	0.00043	0.000028				E	0.033	0.002				E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	0.000045	0.000045	U			E	0.092	0.000094				E	0.00055	0.000028				E	0.044	0.002				E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	0.000045	0.000045	U			E	0.11	0.000094				E	0.00054	0.000028				E	0.039	0.002				E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	0.000045	0.000045	U			E	0.012	0.000094				E	0.00057	0.000028				E	0.014	0.002				E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	0.000045	0.000045	U			E	0.028	0.000094				E	0.00051	0.000028				E	0.019	0.002				E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	0.000045	0.000045	U			E	0.15	0.000094				E	0.00048	0.000028				E	0.03	0.002				E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	0.000045	0.000045	U			E	0.16	0.000094				E	0.00043	0.000028				E	0.027	0.002				E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	0.000045	0.000045	U			E	0.012	0.000094				E	0.00051	0.000028				E	0.016	0.002				E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	0.000045	0.000045	U			E	0.074	0.000094				E	0.00085	0.000028				E	0.03	0.002				E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	0.000045	0.000045	U			E	0.056	0.000094				E	0.00054	0.000028				E	0.021	0.002				E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	0.000045	0.000045	U			E	0.27	0.000094				E	0.000072	0.000028	J			E	0.016	0.002				E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	0.000045	0.000045	U				0.29	0.000094					0.00008	0.000028	J				0.017	0.002				
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	0.000045	0.000045	U			E	0.011	0.000094				E	0.00054	0.000028				E	0.028	0.002				E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	0.000045	0.000045	U			E	0.048	0.000094				E	0.00049	0.000028				E	0.032	0.002				E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	0.000045	0.000045	U			E	0.052	0.000094				E	0.00081	0.000028				E	0.043	0.002				E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	0.000045	0.000045	U			E	0.2	0.000094				E	0.0002	0.000028				E	0.031	0.002				E
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	0.000045	0.000045	U			E	0.0033	0.000094				E	0.00035	0.000028				E	0.012	0.002				E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	0.000045	0.000045	U			E	0.0052	0.000094				E	0.0001	0.000028				E	0.0089	0.002				E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	0.000045	0.000045	U			E	0.006	0.000094				E	0.000071	0.000028	J			E	0.0097	0.002				E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	0.000045	0.000045	U			E	0.0056	0.000094				E	0.000091	0.000028	J			E	0.013	0.002				E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	0.000045	0.000045	U				0.0055	0.000094					0.000066	0.000028	J				0.014	0.002				
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	0.000045	0.000045	U			E	0.013	0.000094				E	0.00084	0.000028				E	0.021	0.002				E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	0.000045	0.000045	U			E	0.042	0.000094				E	0.00089	0.000028				E	0.025	0.002				E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	0.000045	0.000045	U			E	0.15	0.000094				E	0.00096	0.000028				E	0.04	0.002				E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	0.000045	0.000045	U			E	0.35	0.000094				E	0.00025	0.000028				E	0.024	0.002				E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	0.000045	0.000045	U			E	0.012	0.000094				E	0.014	0.000028				E	0.08	0.002				E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	0.000045	0.000045	U			E	0.027	0.000094				E	0.0006	0.000028				E	0.036	0.002				E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	0.000045	0.000045	U			E	0.11	0.000094				E	0.00065	0.000028				E	0.047	0.002				E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	0.000045	0.000045	U			E	0.13	0.000094				E	0.00063	0.000028				E	0.044	0.002				E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	0.000045	0.000045	U			E	0.0039	0.000094				E	0.00015	0.000028				E	0.0077	0.002				E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	0.000045	0.000045	U			E	0.0025	0.000094				E	0.0074	0.000028				E	0.039	0.002				E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	0.000045	0.000045	U			E	0.0018	0.000094				E	0.00025	0.000028				E	0.011	0.002				E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	0.000045	0.000045	U			E	0.0039	0.000094				E	0.0033	0.000028				E	0.052	0.002				E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	AgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AlDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	0.00016	0.00016	U			E	0.008	0.008	U			E	0.0037	0.000083				E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	0.00016	0.00016	U			E	0.027	0.008				E	0.004	0.000083				E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	0.00016	0.00016	U			E	0.0086	0.008	J			E	0.0036	0.000083				E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	0.00016	0.00016	U			E	0.0086	0.008	J			E	0.003	0.000083				E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	0.00025	0.00016	J			E	1.6	0.008				E	0.0092	0.000083				E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	0.00016	0.00016	U			E	0.033	0.008				E	0.0039	0.000083				E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	0.00016	0.00016	U			E	0.022	0.008				E	0.0033	0.000083				E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	0.00016	0.00016	U			E	0.011	0.008	J			E	0.003	0.000083				E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	0.00016	0.00016	U				0.011	0.008	J				0.0033	0.000083				
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.00016	0.00016	U				0.008	0.008	U				0.000083	0.000083	U			
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	0.00016	0.00016	U			E	0.01	0.008	J			E	0.003	0.000083				E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	0.00016	0.00016	U			E	0.02	0.008				E	0.0031	0.000083				E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	0.00016	0.00016	U			E	0.012	0.008	J			E	0.0025	0.000083				E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0026	0.000083				E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	0.00016	0.00016	U			E	0.0088	0.008	J			E	0.0024	0.000083				E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	0.00016	0.00016	U			E	0.011	0.008	J			E	0.0026	0.000083				E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.00016	0.00016	U,L1			E	0.017	0.008	J			E	0.0023	0.000083				E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	0.00016	0.00016	U,L1			E	0.02	0.008				E	0.0021	0.000083				E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.00016	0.00016	U,L1			E	0.018	0.008	J			E	0.0054	0.000083				E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	0.00016	0.00016	U,L1			E	0.023	0.008				E	0.005	0.000083				E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	0.00016	0.00016	U,L1			E	0.021	0.008				E	0.0035	0.000083				E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	0.00016	0.00016	U,L1			E	0.008	0.008	U			E	0.0021	0.000083				E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.00016	0.00016	U,L1			E	0.016	0.008	J			E	0.0056	0.000083				E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	0.00016	0.00016	U,L1			E	0.023	0.008				E	0.0042	0.000083				E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	0.00016	0.00016	U,L1			E	0.008	0.008	U			E	0.0031	0.000083				E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.00016	0.00016	U,L1			E	0.008	0.008	U			E	0.0035	0.000083				E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	0.00016	0.00016	U,L1			E	0.015	0.008	J			E	0.0036	0.000083				E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	0.00016	0.00016	U,L1			E	0.024	0.008				E	0.0035	0.000083				E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	0.00016	0.00016	U,L1			E	0.012	0.008	J			E	0.0031	0.000083				E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.00016	0.00016	U,L1			E	0.017	0.008	J			E	0.003	0.000083				E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.00016	0.00016	U,L1				0.018	0.008	J				0.0031	0.000083				
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.00016	0.00016	U,L1				0.008	0.008	U				0.000083	0.000083	U			
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	0.00016	0.00016	U,L1			E	0.0097	0.008	J			E	0.0038	0.000083				E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	0.00016	0.00016	U,L1			E	0.012	0.008	J			E	0.0036	0.000083				E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	0.00016	0.00016	U,L1			E	0.033	0.008				E	0.0034	0.000083				E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	0.00016	0.00016	U,L1			E	0.16	0.008				E	0.0034	0.000083				E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	0.00016	0.00016	U			E	0.049	0.008				E	0.0034	0.000083				E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0031	0.000083				E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	0.00016	0.00016	U			E	0.013	0.008	J			E	0.0027	0.000083				E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	0.00026	0.00016	J			E	1.8	0.008				E	0.0076	0.000083				E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	0.000098	0.000016				E	0.0078	0.0005				E	0.022	0.012	J			E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	0.000095	0.000016				E	0.0078	0.0005				E	0.059	0.012				E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	0.00018	0.000016				E	0.0065	0.0005				E	0.015	0.012	J			E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	0.00015	0.000016				E	0.008	0.0005				E	0.014	0.012	J			E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	0.00033	0.000016				E	0.057	0.0005				E	2.2	0.012				E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	0.00012	0.000016				E	0.0083	0.0005				E	0.049	0.012	J			E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	0.00015	0.000016				E	0.0071	0.0005				E	0.017	0.012	J			E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	0.00013	0.000016				E	0.0062	0.0005				E	0.012	0.012	U			E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	0.00016	0.000016					0.0061	0.0005					0.012	0.012	U			
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	0.00011	0.000016				E	0.0085	0.0005				E	0.02	0.012	J			E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	0.00013	0.000016				E	0.0088	0.0005				E	0.031	0.012	J			E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	0.00014	0.000016				E	0.0087	0.0005				E	0.027	0.012	J			E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	0.000091	0.000016				E	0.0053	0.0005				E	0.012	0.012	U			E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	0.000019	0.000016	J			E	0.0053	0.0005				E	0.036	0.012	J			E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	0.000019	0.000016	J			E	0.0057	0.0005				E	0.034	0.012	J			E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.000054	0.000016	J			E	0.0076	0.0005				E	0.028	0.012	J			E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	0.000056	0.000016	J			E	0.0094	0.0005				E	0.058	0.012				E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.000049	0.000016	J			E	0.012	0.0005				E	0.048	0.012	J			E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	0.000044	0.000016	J			E	0.0097	0.0005				E	0.043	0.012	J			E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	0.000035	0.000016	J			E	0.0091	0.0005				E	0.047	0.012	J			E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	0.000016	0.000016	J			E	0.0025	0.0005				E	0.021	0.012	J			E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.000031	0.000016	J			E	0.0081	0.0005				E	0.054	0.012				E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	0.000022	0.000016	J			E	0.0081	0.0005				E	0.06	0.012				E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	0.000019	0.000016	J			E	0.005	0.0005				E	0.044	0.012	J			E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.000028	0.000016	J			E	0.0062	0.0005				E	0.044	0.012	J			E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	0.000058	0.000016	J			E	0.0081	0.0005				E	0.032	0.012	J			E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	0.000076	0.000016	J			E	0.0078	0.0005				E	0.034	0.012	J			E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	0.00014	0.000016				E	0.0061	0.0005				E	0.012	0.012	U			E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.000016	0.000016	U			E	0.0017	0.0005				E	0.019	0.012	J			E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.000017	0.000016	J				0.0018	0.0005					0.022	0.012	J			
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	0.00011	0.000016				E	0.0086	0.0005				E	0.019	0.012	J			E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	0.00011	0.000016				E	0.0081	0.0005				E	0.015	0.012	J			E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	0.00017	0.000016				E	0.01	0.0005				E	0.035	0.012	J			E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	0.000097	0.000016				E	0.0094	0.0005				E	0.18	0.012				E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	0.000095	0.000016				E	0.0097	0.0005				E	0.074	0.012				E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	0.0001	0.000016				E	0.008	0.0005				E	0.017	0.012	J			E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	0.00013	0.000016				E	0.0081	0.0005				E	0.017	0.012	J			E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	0.00034	0.000016				E	0.047	0.0005				E	2.1	0.012				E

Table A3b. BPSOU 2021 Wet Weather Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	MoDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	0.000045	0.000045	U			E	0.17	0.000094				E	0.00018	0.000028				E	0.018	0.002				E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.00066	0.000028				E	0.021	0.002				E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	0.000045	0.000045	U			E	0.2	0.000094				E	0.00023	0.000028				E	0.029	0.002				E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	0.000045	0.000045	U			E	0.2	0.000094				E	0.00023	0.000028				E	0.032	0.002				E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	0.000045	0.000045	U			E	0.17	0.000094				E	0.027	0.000028				E	0.1	0.002				E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	0.000045	0.000045	U			E	0.2	0.000094				E	0.00074	0.000028				E	0.025	0.002				E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	0.000045	0.000045	U			E	0.07	0.000094				E	0.00051	0.000028				E	0.023	0.002				E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	0.000045	0.000045	U			E	0.4	0.000094				E	0.000082	0.000028	J			E	0.025	0.002				E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	0.000045	0.000045	U				0.42	0.000094					0.000065	0.000028	J				0.024	0.002				
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	0.000045	0.000045	U			E	0.13	0.000094				E	0.00038	0.000028				E	0.028	0.002				E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	0.000045	0.000045	U			E	0.16	0.000094				E	0.00049	0.000028				E	0.039	0.002				E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	0.000045	0.000045	U			E	0.044	0.000094				E	0.00064	0.000028				E	0.04	0.002				E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	0.000045	0.000045	U			E	0.33	0.000094				E	0.00012	0.000028				E	0.028	0.002				E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	0.000045	0.000045	U			E	0.0028	0.000094				E	0.00014	0.000028				E	0.0064	0.002				E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	0.000045	0.000045	U			E	0.0027	0.000094				E	0.00016	0.000028				E	0.0063	0.002				E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	0.000045	0.000045	U			E	0.0024	0.000094				E	0.00018	0.000028				E	0.019	0.002				E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	0.000045	0.000045	U			E	0.0024	0.000094				E	0.00028	0.000028				E	0.017	0.002				E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	0.000045	0.000045	U			E	0.0041	0.000094				E	0.00026	0.000028				E	0.018	0.002				E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	0.000045	0.000045	U			E	0.0029	0.000094				E	0.00024	0.000028				E	0.012	0.002				E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	0.000045	0.000045	U			E	0.0029	0.000094				E	0.00028	0.000028				E	0.017	0.002				E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	0.000045	0.000045	U			E	0.0066	0.000094				E	0.000051	0.000028	J			E	0.0062	0.002				E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	0.000045	0.000045	U			E	0.0036	0.000094				E	0.00025	0.000028				E	0.01	0.002				E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	0.000045	0.000045	U			E	0.0028	0.000094				E	0.0003	0.000028				E	0.0094	0.002				E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	0.000045	0.000045	U			E	0.005	0.000094				E	0.00014	0.000028				E	0.009	0.002				E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	0.000045	0.000045	U			E	0.0068	0.000094				E	0.000089	0.000028	J			E	0.015	0.002				E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	0.000045	0.000045	U			E	0.17	0.000094				E	0.00032	0.000028				E	0.018	0.002				E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	0.000045	0.000045	U			E	0.15	0.000094				E	0.00052	0.000028				E	0.02	0.002				E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	0.000045	0.000045	U			E	0.18	0.000094				E	0.0004	0.000028				E	0.037	0.002				E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	0.000045	0.000045	U			E	0.42	0.000094				E	0.00017	0.000028				E	0.016	0.002				E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	0.000045	0.000045	U				0.44	0.000094					0.00018	0.000028					0.015	0.002				
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.000045	0.000045	U				0.000094	0.000094	U				0.000028	0.000028	U				0.002	0.002	U			
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	0.000045	0.000045	U			E	0.19	0.000094				E	0.00023	0.000028				E	0.019	0.002				E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	0.000045	0.000045	U			E	0.2	0.000094				E	0.00021	0.000028				E	0.026	0.002				E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	0.000045	0.000045	U			E	0.077	0.000094				E	0.001	0.000028				E	0.029	0.002				E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	0.000045	0.000045	U			E	0.48	0.000094				E	0.0021	0.000028				E	0.028	0.002				E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	0.000045	0.000045	U			E	0.13	0.000094				E	0.00082	0.000028				E	0.029	0.002				E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	0.000045	0.000045	U			E	0.14	0.000094				E	0.0003	0.000028				E	0.032	0.002				E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	0.000045	0.000045	U			E	0.097	0.000094				E	0.00046	0.000028				E	0.041	0.002				E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	0.000045	0.000045	U			E	0.21	0.000094				E	0.03	0.000028				E	0.14	0.002				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alk (mg $CaCO_3$/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CaDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	DOC (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Hardness (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	61.8	2				E	21.9	0.015				E	4.5	0.3		J+	FB	S	78.2	0.054				E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	64.3	2				E	23	0.015	P6			E	5.1	0.3				E	84.1	0.054				E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	76.8	2				E	27.9	0.015				E	4.2	0.3		J+	FB	S	98.9	0.054				E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	77.9	2				E	26.3	0.015				E	9.6	0.3				E	94	0.054				E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	66.4	2				E	190	0.15				E	3.9	0.3		J+	FB	S	514	0.54				E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	63.8	2				E	165	0.15				E	4.2	0.3		J+	FB	S	451	0.54				E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	61.2	2				E	152	0.15				E	4.3	0.3		J+	FB	S	418	0.54				E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	69	2				E	143	0.15				E	10.2	0.3				E	399	0.54				E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	69	2					139	0.15					10.1	0.3					390	0.54				
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	2	2	U				0.015	0.015	U				0.47	0.3	J				0.054	0.054	U			
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	65.7	2				E	165	0.15	P6			E	3.9	0.3		J+	FB	S	448	0.54				E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	60.5	2				E	163	0.15				E	4.1	0.3		J+	FB	S	444	0.54				E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	63	2				E	152	0.15				E	4.1	0.3		J+	FB	S	418	0.54				E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	72.9	2				E	129	0.15				E	16.7	0.59				E	365	0.54				E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	73.8	2				E	120	0.15				E	4.4	0.3		J+	FB	S	337	0.54				E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	83.8	2				E	106	0.15				E	4	0.3		J+	FB	S	308	0.54				E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	78.8	2				E	130	0.15				E	3.9	0.3		J+	FB	S	364	0.54				E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	88.1	2				E	129	0.15				E	3.7	0.3		J+	FB	S	363	0.54				E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	61.8	2				E	21.4	0.015				E	4.3	0.3		J+	FB	S	76	0.054				E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	60.5	2				E	21.2	0.015				E	4.5	0.3		J+	FB	S	75.8	0.054				E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	74.9	2				E	25.7	0.015	P6			E	4.2	0.3		J+	FB	S	91.3	0.054				E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	76.5	2				E	28.5	0.015				E	4.3	0.3		J+	FB	S	100	0.054				E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	76.8	2				E	28.3	0.015				E							104	0.054				E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	70.1	2				E	25.6	0.015				E							94.2	0.054				E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	69.1	2				E	24	0.015				E							90.8	0.054				E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	86.4	2				E	31.8	0.015				E							117	0.054				E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	81.7	2				E	29.3	0.015				E							106	0.054				E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	76.6	2				E	26.7	0.015				E							101	0.054				E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	87.4	2				E	30.4	0.015				E							115	0.054				E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	92.7	2				E	34.2	0.015				E							125	0.054				E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	58.8	2				E	158	0.15				E							427	0.54				E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	68.1	2				E	138	0.15				E							382	0.54				E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	70.5	2				E	182	0.15				E							490	0.54				E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	65.4	2				E	176	0.15				E							475	0.54				E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	62.9	2				E	207	0.15				E							552	0.54				E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	59	2				E	176	0.15				E							471	0.54				E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	63.9	2				E	178	0.15				E							483	0.54				E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	69.7	2				E	139	0.15				E							385	0.54				E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	72.2	2				E	121	0.15				E	4.3	0.3		J+	FB	S	339	0.54				E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	79.1	2				E	131	0.15				E	4.2	0.3		J+	FB	S	369	0.54				E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	79.6	2				E	123	0.15	M1			E	3.9	0.3		J+	FB	S	346	0.54				E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	82	2				E	126	0.15				E	7.9	0.59				E	357	0.54				E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	82.2	2					119	0.15					8.3	0.59					340	0.54				
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	2	2	U				0.015	0.015	U				0.52	0.3	J				0.054	0.054	U			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	66.9	2				E	25.1	0.015	P6			E							88.6	0.054				E
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	69.6	2				E	26.8	0.015				E							94.4	0.054				E
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	67.4	2				E	24.4	0.015				E							87.8	0.054				E
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	66.5	2				E	22.4	0.015				E							81.8	0.054				E
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	65.8	2					22.6	0.015											82.1	0.054				
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	1.8	1.8	U,H1	UJ	HT		0.015	0.015	U										0.054	0.054	U			
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	75.2	2				E	81.3	0.3				E							241	1.1				E
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	66.9	2				E	174	0.3				E							472	1.1				E
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	63.4	2				E	282	0.3				E							744	1.1				E
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	66.1	2				E	286	0.3				E							752	1.1				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	MgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NH3-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NO_3/NO_2-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Total Phos (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	5.7	0.0039				E	0.03	0.03	U			E	0.46	0.078	B			E	0.19	0.05				E
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	6.5	0.0039				E	0.03	0.03	U,M1			E	0.53	0.078	B			E	0.17	0.05				E
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	7.1	0.0039				E	0.03	0.03	U			E	0.57	0.078	B,M1	J-	MS	S	0.09	0.05	J			E
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	6.9	0.0039				E	0.03	0.03	U			E	0.6	0.078	B,M1	J-	MS	S	0.078	0.05	J			E
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	9.7	0.0039				E	0.038	0.03	J			E	0.72	0.078	B			E	0.12	0.05				E
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	9.4	0.0039				E	0.031	0.03	J			E	0.66	0.078	B			E	0.17	0.05				E
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	9.4	0.0039				E	0.038	0.03	J			E	0.64	0.078	B			E	0.21	0.05				E
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	10.4	0.0039				E	0.03	0.03	U			E	0.67	0.078	B			E	0.23	0.05				E
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	10.3	0.0039					0.03	0.03	U				0.66	0.078	B				0.24	0.05				
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	0.0039	0.0039	U				0.03	0.03	U				0.078	0.078	U				0.05	0.05	U			
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	8.8	0.0039				E	0.039	0.03	J			E	0.67	0.078	B			E	0.13	0.05				E
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	9.1	0.0039				E	0.03	0.03	U			E	0.65	0.078	B			E	0.16	0.05				E
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	9.4	0.0039				E	0.048	0.03	J			E	0.65	0.078	B			E	0.23	0.05				E
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	10.3	0.0039				E	0.043	0.03	J			E	0.73	0.078	B			E	0.21	0.05				E
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	9.1	0.0039				E	0.03	0.03	J			E	1	0.078				E	0.17	0.05				E
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	10.1	0.0039				E	0.053	0.03	J			E	1.2	0.078				E	0.11	0.05				E
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	9.5	0.0039				E	0.035	0.03	J			E	1.2	0.078				E	0.16	0.05				E
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	9.8	0.0039				E	0.03	0.03	U			E	1.3	0.078				E	0.12	0.05				E
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	5.5	0.0039				E	0.03	0.03	U			E	0.46	0.078	B	J-	MS	S	0.16	0.05				E
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	5.6	0.0039				E	0.04	0.03	J			E	0.44	0.078	B	J-	MS	S	0.25	0.05				E
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	6.6	0.0039				E	0.03	0.03	U			E	0.58	0.078	B	J-	MS	S	0.11	0.05				E
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	7	0.0039				E	0.03	0.03	U			E	0.57	0.078	B	J-	MS	S	0.088	0.05	J			E
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	8.1	0.0039				E							0.64	0.078	M1	J-	MS	S						
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	7.3	0.0039				E							0.57	0.078		J-	MS	S						
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	7.5	0.0039				E							0.57	0.078		J-	MS	S						
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	9.2	0.0039				E							0.8	0.078		J-	MS	S						
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	8	0.0039				E							0.55	0.078		J-	MS	S						
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	8.3	0.0039				E							0.49	0.078		J-	MS	S						
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	9.5	0.0039				E							0.63	0.078		J-	MS	S						
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	9.6	0.0039				E							0.6	0.078		J-	MS	S						
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	7.8	0.0039				E							0.58	0.078				E						
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	9	0.0039				E							0.61	0.078				E						
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	8.9	0.0039				E							0.68	0.078				E						
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	8.4	0.0039				E							0.66	0.078				E						
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	8.4	0.0039				E							0.55	0.078				E						
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	7.5	0.0039				E							0.54	0.078				E						
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	9.2	0.0039				E							0.6	0.078				E						
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	9.2	0.0039				E							0.62	0.078				E						
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	8.9	0.0039				E	0.04	0.03	J			E	1.1	0.078				E	0.24	0.05				E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	10.2	0.0039				E	0.03	0.03	U			E	1.1	0.078				E	0.16	0.05				E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	9.5	0.0039				E	0.037	0.03	J			E	1.3	0.078				E	0.12	0.05				E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	10.2	0.0039				E	0.06	0.03	J			E	1.2	0.078				E	0.087	0.05	J			E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	10.5	0.0039					0.058	0.03	J				1.3	0.078					0.082	0.05	J			
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	0.0039	0.0039	U				0.03	0.03	U				0.087	0.078	J,B				0.05	0.05	U			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	6.3	0.0039	M1	J+	MS	S							0.39	0.078	B,M1	J-	MS	S						
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	6.7	0.0039		J+	MS	S							0.37	0.078	B	J-	MS	S						
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	6.5	0.0039		J+	MS	S							0.38	0.078	B	J-	MS	S						
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	6.3	0.0039		J+	MS	S							0.33	0.078	B	J-	MS	S						
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	6.2	0.0039		J+	MS								0.32	0.078	B	J-	MS							
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	0.0039	0.0039	U										0.078	0.078	U									
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	9.2	0.0039				E							0.7	0.078	B			E						
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	9.5	0.0039				E							0.67	0.078	B			E						
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	9.4	0.0039				E							0.69	0.078	B			E						
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	9.3	0.0039				E							0.72	0.078	B			E						

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	SO_4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TDS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TKN (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562380	SS-01	SWWW0001-052321	10562380001	2021-05-23 16:15	IS4	B	21.7	1.2		J+	FB	S	133	5				E	0.48	0.48	U			E	60	5		J	FD	S
10562380	SS-01	SWWW0002-052321	10562380002	2021-05-23 15:15	IS3	B	22.5	1.2	M1	J+	FB	S	141	5				E	0.48	0.48	U			E	78	5		J	FD	S
10562380	SS-01	SWWW0003-052321	10562380003	2021-05-23 14:15	IS2	B	25.4	1.2		J+	FB	S	154	5				E	0.48	0.48	U			E	5	5	J	J	FD	S
10562380	SS-01	SWWW0004-052321	10562380004	2021-05-23 13:15	IS1	B	30.5	1.2	M1	J	FB,MS	S	161	5				E	0.48	0.48	U			E	5	5	U	UJ	FD	S
10562380	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23 20:56	IS4	B	565	30.2	M1			E	926	5				E	0.48	0.48	U			E	22	5		J	FD	S
10562380	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23 19:56	IS3	B	473	30.2				E	810	5				E	0.48	0.48	U			E	34.1	5		J	FD	S
10562380	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23 18:56	IS2	B	483	30.2				E	788	5				E	0.5	0.48				E	57.2	5		J	FD	S
10562380	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23 17:56	IS1-N	B	415	30.2				E	722	5				E	0.91	0.48				E	40.3	5		J	FD	S
10562380	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23 17:56	IS1-D	B	397	30.2					719	5					0.89	0.48					52.5	5		J	FD	
10562380	SWQC	SWWW0010-052521	10562380010	2021-05-25 11:00	FB	B	3.1	1.2					11	5					0.48	0.48	U				5	5	U			
10562380	SS-06G	SWWW0011-052321	10562380011	2021-05-23 20:56	IS4	B	511	24.2				E	887	5				E	0.48	0.48	U			E	31.2	5		J	FD	S
10562380	SS-06G	SWWW0012-052321	10562380012	2021-05-23 19:56	IS3	B	478	30.2				E	820	5				E	0.48	0.48	U			E	43.3	5		J	FD	S
10562380	SS-06G	SWWW0013-052321	10562380013	2021-05-23 18:56	IS2	B	450	30.2				E	772	5				E	0.54	0.48				E	64.2	5		J	FD	S
10562380	SS-06G	SWWW0014-052321	10562380014	2021-05-23 17:56	IS1	B	358	12.1				E	641	5				E	0.54	0.48				E	39.8	5		J	FD	S
10562380	SS-07	SWWW0015-052321	10562380015	2021-05-23 19:01	IS4	B	381	12.1				E	685	5				E	0.48	0.48	U			E	42.9	5		J	FD	S
10562380	SS-07	SWWW0016-052321	10562380016	2021-05-23 18:01	IS3	B	302	12.1				E	574	5				E	0.48	0.48	U			E	37.9	5		J	FD	S
10562380	SS-07	SWWW0017-052321	10562380017	2021-05-23 17:01	IS2	B	347	30.2				E	657	5				E	0.48	0.48	U			E	34.5	5		J	FD	S
10562380	SS-07	SWWW0018-052321	10562380018	2021-05-23 16:01	IS1	B	320	30.2				E	641	5				E	0.48	0.48	U			E	122	5		J	FD	S
10562380	SS-01-P	SWWW0019-052321	10562380019	2021-05-23 16:15	IS4	B	25.2	1.2		J	FB,MS	S	128	5				E	0.48	0.48	U			E	37.7	5		J	FD	S
10562380	SS-01-P	SWWW0020-052321	10562380020	2021-05-23 15:15	IS3	B	23	1.2		J	FB,MS	S	133	5				E	0.48	0.48	U			E	93.5	5		J	FD	S
10562380	SS-01-P	SWWW0021-052321	10562380021	2021-05-23 14:15	IS2	B	28.4	1.2		J	FB,MS	S	162	5				E	0.48	0.48	U			E	14.7	5		J	FD	S
10562380	SS-01-P	SWWW0022-052321	10562380022	2021-05-23 13:15	IS1	B	28.8	1.2		J	FB,MS	S	166	5				E	0.48	0.48	U			E	12.6	5	D6	J	FD	S
10562380	SS-01.35	SWWW0023-052321	10562380023	2021-05-23 19:04	IS4	B	30.8	1.2		J-	MS	S	178	5				E							17.4	5				E
10562380	SS-01.35	SWWW0024-052321	10562380024	2021-05-23 18:04	IS3	B	24.9	1.2				E	165	5				E							57.3	5				E
10562380	SS-01.35	SWWW0025-052321	10562380025	2021-05-23 17:04	IS2	B	28.2	1.2				E	153	5				E							83.4	5				E
10562380	SS-01.35	SWWW0026-052321	10562380026	2021-05-23 16:04	IS1	B	29.1	1.2				E	197	5				E							12.8	5				E
10562380	SS-04	SWWW0027-052321	10562380027	2021-05-23 19:21	IS4	B	30.4	1.2				E	183	5				E							33	5				E
10562380	SS-04	SWWW0028-052321	10562380028	2021-05-23 18:21	IS3	B	32.5	1.2				E	175	5				E							52.7	5				E
10562380	SS-04	SWWW0029-052321	10562380029	2021-05-23 17:21	IS2	B	35.3	1.2				E	180	5				E							56	5				E
10562380	SS-04	SWWW0030-052321	10562380030	2021-05-23 16:21	IS1	B	36.2	1.2				E	218	5				E							14	5				E
10562380	SS-05	SWWW0031-052321	10562380031	2021-05-23 18:18	IS4	B	451	24.2				E	828	5				E							47.6	5				E
10562380	SS-05	SWWW0032-052321	10562380032	2021-05-23 17:18	IS3	B	416	24.2				E	784	5				E							27	5				E
10562380	SS-05	SWWW0033-052321	10562380033	2021-05-23 16:18	IS2	B	454	24.2				E	831	5				E							24.2	5				E
10562380	SS-05	SWWW0034-052321	10562380034	2021-05-23 15:18	IS1	B	450	24.2				E	836	5				E							47.7	5				E
10562380	SS-06A	SWWW0035-052321	10562380035	2021-05-23 20:16	IS4	B	480	24.2				E	927	5				E							33.1	5				E
10562380	SS-06A	SWWW0036-052321	10562380036	2021-05-23 19:16	IS3	B	440	24.2				E	806	5				E							53	5				E
10562380	SS-06A	SWWW0037-052321	10562380037	2021-05-23 18:16	IS2	B	396	24.2				E	776	5				E							63	5				E
10562380	SS-06A	SWWW0038-052321	10562380038	2021-05-23 17:16	IS1	B	310	24.2				E	666	5				E							41.9	5				E
10562380	SS-07-P	SWWW0039-052321	10562380039	2021-05-23 19:00	IS4	B	315	24.2				E	686	5				E	1.1	0.48				E	42.1	5				E
10562380	SS-07-P	SWWW0040-052321	10562380040	2021-05-23 18:00	IS3	B	275	24.2				E	653	5				E	1.4	0.48				E	35.9	5				E
10562380	SS-07-P	SWWW0041-052321	10562380041	2021-05-23 17:00	IS2	B	274	24.2				E	630	5				E	0.73	0.48				E	27.4	5				E
10562380	SS-07-P	SWWW0042-052321	10562380042	2021-05-23 16:00	IS1-N	B	251	24.2				E	616	5				E	0.48	0.48	U			E	18.8	5	D6			E
10562380	SS-07-P	SWWW0043-052321	10562380043	2021-05-23 16:00	IS1-D	B	261	24.2					622	5					0.8	0.48					22.5	5				
10562380	SWQC	SWWW0044-052521	10562380044	2021-05-25 13:00	FB	B	1.2	1.2	U				6	5	J				0.48	0.48	U				5	5	U			
10562853	SS-01	SWWW0045-052621	10562853001	2021-05-26 03:11	IS4	B	33.3	2.4				E	178	5				E							21.3	5	D6	J	FD	S
10562853	SS-01	SWWW0046-052621	10562853002	2021-05-26 02:11	IS3	B	36.6	1.2				E	127	5				E							49.1	5		J	FD	S
10562853	SS-01	SWWW0047-052621	10562853003	2021-05-26 01:11	IS2	B	34.8	1.2				E	164	5				E							65.8	5		J	FD	S
10562853	SS-01	SWWW0048-052621	10562853004	2021-05-26 00:11	IS1-N	B	33.7	1.2				E	168	5				E							197	5		J	FD	S
10562853	SS-01	SWWW0049-052621	10562853005	2021-05-26 00:11	IS1-D	B	34.4	1.2					145	5											117	5		J	FD	
10562853	SWQC	SWWW0050-052821	10562853006	2021-05-28 09:50	FB	B	1.2	1.2	U				5	5	U										5	5	U			
10562853	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26 14:51	IS4	B	206	12.1				E	435	5				E							13.3	5		J	FD	S
10562853	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26 13:51	IS3	B	368	30.2				E	724	10				E							15.1	5		J	FD	S
10562853	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26 12:51	IS2	B	715	24.2				E	1210	25				E							17.6	5		J	FD	S
10562853	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26 11:51	IS1	B	678	24.2				E	1130	25				E							7.7	5	J	J	FD	S

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alk (mg $CaCO_3$/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CaDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	DOC (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Hardness (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	73.8	2				E	75.6	0.3	P6			E							227	1.1				E
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	63	2				E	220	0.3				E							587	1.1				E
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	64.4	2				E	285	0.3				E							749	1.1				E
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	66.4	2				E	279	0.3				E							734	1.1				E
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	89.6	2				E	67.3	0.3				E							205	1.1				E
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	79.1	2				E	164	0.3				E							447	1.1				E
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	74.2	2				E	253	0.3				E							668	1.1				E
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	79.1	2				E	236	0.3				E							628	1.1				E
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	66.4	2				E	27.2	0.015				E							96.6	0.054				E
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	69.3	2				E	26.4	0.015				E							93.2	0.054				E
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	65.5	2				E	25	0.015	P6			E							87.4	0.054				E
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	66.9	2				E	25.3	0.015				E							88.8	0.054				E
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	74.5	2				E	25.7	0.015				E							90.7	0.054				E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	72.9	2				E	28.3	0.015				E							98.7	0.054				E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	66.1	2				E	24.4	0.015				E							86.7	0.054				E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	68.6	2				E	25	0.015				E							88.9	0.054				E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	78.7	2				E	29.3	0.015				E							103	0.054				E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	76.8	2				E	29.3	0.015				E							105	0.054				E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	70.1	2				E	25.7	0.015				E							90.9	0.054				E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	74.9	2				E	29.5	0.015				E							103	0.054				E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	74.5	2				E	55.5	0.15	P6			E							169	0.54				E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	64.2	2				E	159	0.15				E							428	0.54				E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	59.2	2				E	278	0.15				E							725	0.54				E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	61.7	2				E	279	0.15				E							729	0.54				E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	60.5	2				E	287	0.15				E							749	0.54				E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	63.1	2				E	251	0.15				E							658	0.54				E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	60.1	2				E	234	0.15				E							615	0.54				E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	61.7	2				E	249	0.15				E							654	0.54				E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	64.3	2	L5	J+	LCS		250	0.15											654	0.54				
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	1.8	1.8	U,H1	UJ	HT		0.02	0.015	J										0.064	0.054	J			
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	87.6	2	L5	J+	LCS	S	73.1	0.15				E							219	0.54				E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	82.9	2	L5	J+	LCS	S	119	0.15				E							334	0.54				E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	72.9	2	L5	J+	LCS	S	210	0.15				E							561	0.54				E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	77	2	L5	J+	LCS	S	225	0.15				E							599	0.54				E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	83.1	1.8				E	28.8	0.015	P6			E	4.7	0.3		J+	FB	S	104	0.054				E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	78.5	1.8				E	26.6	0.076				E	6.1	0.3				E	96.9	0.27				E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	69.5	1.8				E	24.2	0.015				E	8.8	0.3				E	90.1	0.054				E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	61.9	1.8				E	23.7	0.076				E	16.8	0.59				E	86.9	0.27				E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	62.3	1.8				E	196	0.15				E	4.7	0.3		J+	FB	S	523	0.54				E
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	62.8	1.8				E	203	0.15				E	2.8	0.3		J+	FB	S	547	0.54				E
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	51.3	1.8	H5			E	208	0.15				E	4.5	0.3		J+	FB	S	557	0.54				E
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	51.7	1.8	H5			E	184	0.15				E	8.8	0.3				E	498	0.54				E
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	63.8	1.8	H5			E	228	0.15				E	2.6	0.3		J+	FB	S	610	0.54				E
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	55.7	1.8	H5			E	221	0.15				E	2.9	0.3		J+	FB	S	593	0.54				E
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	50.4	1.8				E	205	0.15				E	5.6	0.3		J+	FB	S	552	0.54				E
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	57.6	1.8				E	238	0.15				E	5.9	0.3		J+	FB	S	635	0.54				E
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	56.8	1.8					250	0.15					5.7	0.3		J+	FB		665	0.54				
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	1.8	1.8	U				0.017	0.015	J				0.6	0.3	J				0.061	0.054	J			
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	88	1.8				E	151	0.15				E	3.6	0.3		J+	FB	S	413	0.54				E
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	81.5	1.8				E	170	0.15				E	4	0.3		J+	FB	S	461	0.54				E
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	76.6	1.8				E	138	0.15				E	6	0.3		J+	FB	S	379	0.54				E
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	78.9	1.8				E	203	0.15				E	3.9	0.3		J+	FB	S	543	0.54				E
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	83.4	1.8				E	25.3	0.076	P6			E	6.5	0.3				E	96.2	0.27				E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	81.4	1.8				E	27.2	0.076				E	5.2	0.3		J+	FB	S	101	0.27				E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	74.9	1.8				E	26.7	0.015	P6			E	7.1	0.3				E	96.1	0.054				E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	64.8	1.8				E	23.3	0.015				E	11.7	0.3				E	85.6	0.054				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	MgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NH3-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NO_3/NO_2-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Total Phos (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	9.4	0.0039	P6			E							0.67	0.078	B			E						
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	9.3	0.0039				E							0.67	0.078	B			E						
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	8.8	0.0039				E							0.73	0.078	B			E						
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	9.2	0.0039				E							0.75	0.078	B			E						
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	9	0.0039				E							1.1	0.078				E						
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	9.1	0.0039				E							0.94	0.078				E						
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	9	0.0039				E							0.86	0.078				E						
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	9.3	0.0039				E							0.81	0.078	B			E						
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	6.9	0.0039		J+	MS	S							0.4	0.078	B			E						
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	6.6	0.0039		J+	MS	S							0.41	0.078	B			E						
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	6.1	0.0039				E							0.41	0.078	B			E						
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	6.2	0.0039				E							0.4	0.078	B			E						
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	6.4	0.0039				E							0.67	0.078	B			E						
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	6.8	0.0039				E							0.64	0.078	B			E						
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	6.2	0.0039				E							0.57	0.078	B			E						
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	6.4	0.0039				E							0.53	0.078	B			E						
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	7.2	0.0039				E							0.55	0.078	B			E						
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	7.6	0.0039				E							0.55	0.078	B			E						
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	6.5	0.0039				E							0.5	0.078	B			E						
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	7.1	0.0039				E							0.56	0.078	B			E						
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	7.3	0.0039	P6	J-	MS	S							0.53	0.078	B			E						
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	7.6	0.0039		J-	MS	S							0.52	0.078	B			E						
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	7.3	0.0039		J-	MS	S							0.55	0.078	B			E						
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	7.6	0.0039		J-	MS	S							0.41	0.078	B			E						
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	7.7	0.0039		J-	MS	S							0.6	0.078	B			E						
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	7.5	0.0039		J-	MS	S							0.66	0.078	B			E						
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	7.2	0.0039		J-	MS	S							0.62	0.078	B			E						
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	7.7	0.0039		J-	MS	S							0.61	0.078	B			E						
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	7.5	0.0039		J-	MS								0.61	0.078	B									
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	0.0039	0.0039	U										0.091	0.078	J,B									
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	9	0.0039				E							1.1	0.078				E						
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	8.9	0.0039				E							1	0.078				E						
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	8.8	0.0039				E							0.81	0.078	B			E						
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	8.9	0.0039				E							0.81	0.078	B			E						
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	7.7	0.0039				E	0.038	0.03	J			E	0.98	0.078				E	0.11	0.05				E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	7.4	0.0039				E	0.03	0.03	U			E	0.92	0.078				E	0.15	0.05				E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	7.2	0.0039				E	0.03	0.03	U			E	0.85	0.078				E	0.22	0.05				E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	6.7	0.0039				E	0.095	0.03	J			E	0.87	0.078				E	0.27	0.05				E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	8.2	0.0039				E	0.039	0.03	J			E	0.9	0.078				E	0.1	0.05		J	FD	S
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	9.5	0.0039				E	0.03	0.03	U			E	1	0.078				E	0.11	0.05		J	FD	S
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	9.2	0.0039				E	0.061	0.03	J			E	0.94	0.078				E	0.12	0.05		J	FD	S
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	9.7	0.0039				E	0.04	0.03	J			E	0.86	0.078				E	0.25	0.05		J	FD	S
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	10.2	0.0039				E	0.03	0.03	U			E	1.1	0.078				E	0.087	0.05	J	J	FD	S
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	9.9	0.0039				E	0.03	0.03	U			E	1	0.078				E	0.08	0.05	J	J	FD	S
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	9.4	0.0039				E	0.04	0.03	J			E	0.88	0.078	B			E	0.19	0.05		J	FD	S
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	10	0.0039				E	0.03	0.03	U			E	0.95	0.078				E	0.21	0.05		J	FD	S
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	9.7	0.0039					0.031	0.03	J				0.96	0.078					0.4	0.05		J	FD	
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	0.0043	0.0039	J				0.03	0.03	U				0.078	0.078	U				0.05	0.05	U			
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	8.8	0.0039				E	0.03	0.03	U			E	0.72	0.078	B			E	0.056	0.05	J	J	FD	S
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	9.1	0.0039				E	0.03	0.03	U			E	0.66	0.078	B			E	0.052	0.05	J	J	FD	S
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	8.2	0.0039				E	0.033	0.03	J			E	0.63	0.078	B			E	0.13	0.05		J	FD	S
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	8.9	0.0039				E	0.03	0.03	U			E	0.76	0.078	B			E	0.065	0.05	J	J	FD	S
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	8	0.0039				E	0.03	0.03	U			E	0.97	0.078				E	0.1	0.05				E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	8.1	0.0039				E	0.03	0.03	U			E	0.93	0.078				E	0.14	0.05				E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	7.1	0.0039				E	0.03	0.03	U			E	0.92	0.078				E	0.13	0.05				E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	6.6	0.0039				E	0.07	0.03	J			E	0.77	0.078	B			E	0.2	0.05				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	SO_4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TDS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TKN (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562853	SS-06G	SWWW0055-052621	10562853011	2021-05-26 14:51	IS4	B	169	6				E	397	5				E							14.8	5		J	FD	S
10562853	SS-06G	SWWW0056-052621	10562853012	2021-05-26 13:51	IS3	B	547	24.2				E	1000	10				E							25.9	5		J	FD	S
10562853	SS-06G	SWWW0057-052621	10562853013	2021-05-26 12:51	IS2	B	722	24.2				E	1190	25				E							12.8	5		J	FD	S
10562853	SS-06G	SWWW0058-052621	10562853014	2021-05-26 11:51	IS1	B	636	24.2				E	1170	25				E							10.3	5		J	FD	S
10562853	SS-07	SWWW0059-052621	10562853015	2021-05-26 15:01	IS4	B	112	6				E	339	5				E							8.8	5	J	J	FD	S
10562853	SS-07	SWWW0060-052621	10562853016	2021-05-26 14:01	IS3	B	380	24.2	M1			E	716	10				E							20	5		J	FD	S
10562853	SS-07	SWWW0061-052621	10562853017	2021-05-26 13:01	IS2	B	635	24.2				E	1110	25				E							12.3	5		J	FD	S
10562853	SS-07	SWWW0062-052621	10562853018	2021-05-26 12:01	IS1	B	595	24.2				E	1080	25				E							7.5	5	J	J	FD	S
10562853	SS-01-P	SWWW0063-052621	10562853019	2021-05-26 03:11	IS4	B	35.4	1.2		J+	MS	S	179	5				E							59.2	5		J	FD	S
10562853	SS-01-P	SWWW0064-052621	10562853020	2021-05-26 02:11	IS3	B	33.1	1.2		J+	MS	S	165	5				E							39.3	5		J	FD	S
10562853	SS-01-P	SWWW0065-052621	10562853021	2021-05-26 01:11	IS2	B	31.5	1.2	M1	J+	MS	S	179	5	D6			E							27	5		J	FD	S
10562853	SS-01-P	SWWW0066-052621	10562853022	2021-05-26 00:11	IS1	B	31.1	1.2		J+	MS	S	171	5				E							44.5	5	D6	J	FD	S
10562853	SS-01.35	SWWW0067-052621	10562853023	2021-05-26 13:51	IS4	B	33.1	1.2		J+	MS	S	184	5				E							7.4	5	J			E
10562853	SS-01.35	SWWW0068-052621	10562853024	2021-05-26 12:51	IS3	B	31.4	1.2		J+	MS	S	181	5				E							9.9	5	J			E
10562853	SS-01.35	SWWW0069-052621	10562853025	2021-05-26 11:51	IS2	B	31.3	1.2		J+	MS	S	161	5				E							41.7	5				E
10562853	SS-01.35	SWWW0070-052621	10562853026	2021-05-26 10:51	IS1	B	31.4	1.2		J+	MS	S	172	5				E							80.5	5				E
10562853	SS-04	SWWW0071-052621	10562853027	2021-05-26 14:21	IS4	B	32.9	1.2		J+	MS	S	183	5				E							12.7	5				E
10562853	SS-04	SWWW0072-052621	10562853028	2021-05-26 13:21	IS3	B	33.5	1.2		J+	MS	S	183	5				E							21.5	5				E
10562853	SS-04	SWWW0073-052621	10562853029	2021-05-26 12:21	IS2	B	31	1.2		J+	MS	S	164	5				E							52.6	5				E
10562853	SS-04	SWWW0074-052621	10562853030	2021-05-26 11:21	IS1	B	33.7	1.2		J+	MS	S	187	5				E							26.8	5				E
10562853	SS-05	SWWW0075-052621	10562853031	2021-05-26 14:09	IS4	B	64.5	2.4				E	221	5				E							15.3	5				E
10562853	SS-05	SWWW0076-052621	10562853032	2021-05-26 13:09	IS3	B	281	30.2				E	545	5				E							37.7	5				E
10562853	SS-05	SWWW0077-052621	10562853033	2021-05-26 12:09	IS2	B	799	30.2				E	1250	25				E							27	5				E
10562853	SS-05	SWWW0078-052621	10562853034	2021-05-26 11:09	IS1	B	719	24.2				E	1400	25				E							5	5	U			E
10562853	SS-06A	SWWW0079-052621	10562853035	2021-05-26 12:41	IS4	B	718	24.2				E	1240	25				E							23.5	5				E
10562853	SS-06A	SWWW0080-052621	10562853036	2021-05-26 11:41	IS3	B	664	60.5				E	1230	25				E							8.6	5	J			E
10562853	SS-06A	SWWW0081-052621	10562853037	2021-05-26 10:41	IS2	B	538	121				E	1040	25				E							22.2	5				E
10562853	SS-06A	SWWW0082-052621	10562853038	2021-05-26 09:41	IS1-N	B	544	121				E	1040	25				E							16.4	5				E
10562853	SS-06A	SWWW0083-052621	10562853039	2021-05-26 09:41	IS1-D	B	586	121					1060	25											18.5	5				
10562853	SWQC	SWWW0084-052821	10562853040	2021-05-28 11:05	FB	B	1.2	1.2	U				5	5	U										5	5	U			
10562853	SS-07-P	SWWW0085-052621	10562853041	2021-05-26 15:00	IS4	B	188	30.2				E	438	5				E							9	5	J			E
10562853	SS-07-P	SWWW0086-052621	10562853042	2021-05-26 14:00	IS3	B	346	12.1				E	582	5				E							16.8	5				E
10562853	SS-07-P	SWWW0087-052621	10562853043	2021-05-26 13:00	IS2	B	596	24.2				E	960	25				E							29.3	5				E
10562853	SS-07-P	SWWW0088-052621	10562853044	2021-05-26 12:00	IS1	B	625	24.2				E	1080	25				E							21.9	5				E
10565256	SS-01	SWWW0089-061021	10565256001	2021-06-10 18:16	IS4	B	27.4	1.2				E	125	5	D6	J	RPD	S	0.48	0.48	U,M1			E	6.1	5	J			E
10565256	SS-01	SWWW0090-061021	10565256002	2021-06-10 17:16	IS3	B	25.1	1.2		J+	FB	S	145	5		J	RPD	S	0.63	0.48		J-	MS	S	14.9	5				E
10565256	SS-01	SWWW0091-061021	10565256003	2021-06-10 16:16	IS2	B	23.3	1.2		J+	FB	S	121	5		J	RPD	S	0.79	0.48		J-	MS	S	56	5				E
10565256	SS-01	SWWW0092-061021	10565256004	2021-06-10 15:16	IS1	B	26.7	1.2		J+	FB	S	141	5		J	RPD	S	1.6	0.48		J-	MS	S	68	5				E
10565256	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10 18:56	IS4	B	566	30.2				E	1000	25		J	RPD	S	0.6	0.48				E	9.4	5	J			E
10565256	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10 17:56	IS3	B	565	30.2				E	895	25		J	RPD	S	0.8	0.48				E	12.1	5				E
10565256	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10 16:56	IS2	B	545	30.2				E	934	10		J	RPD	S	0.66	0.48				E	32	5				E
10565256	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10 15:56	IS1	B	536	30.2				E	852	10		J	RPD	S	1.5	0.48				E	54.6	5				E
10565256	SS-06G	SWWW0097-061021	10565256009	2021-06-10 18:56	IS4	B	526	30.2				E	910	10		J	RPD	S	0.48	0.48	U			E	16	5				E
10565256	SS-06G	SWWW0098-061021	10565256010	2021-06-10 17:56	IS3	B	575	30.2				E	1040	25		J	RPD	S	0.48	0.48	U			E	13.7	5				E
10565256	SS-06G	SWWW0099-061021	10565256011	2021-06-10 16:56	IS2	B	447	30.2				E	924	10		J	RPD	S	0.79	0.48				E	42.2	5				E
10565256	SS-06G	SWWW0100-061021	10565256012	2021-06-10 15:56	IS1-N	B	641	30.2				E	1070	25		J	RPD	S	0.88	0.48				E	19.6	5				E
10565256	SS-06G	SWWW0101-061021	10565256013	2021-06-10 15:56	IS1-D	B	643	30.2					1160	25		J	RPD		0.91	0.48					11.6	5				
10565256	SWQC	SWWW0102-061421	10565256014	2021-06-14 12:05	FB	B	2.7	1.2					5	5	U				0.48	0.48	U				5	5	U			
10565256	SS-07	SWWW0103-061021	10565256015	2021-06-10 18:51	IS4	B	386	30.2				E	700	10		J	RPD	S	0.48	0.48	U			E	10.8	5				E
10565256	SS-07	SWWW0104-061021	10565256016	2021-06-10 17:51	IS3	B	412	30.2				E	748	10		J	RPD	S	0.48	0.48	J			E	13	5				E
10565256	SS-07	SWWW0105-061021	10565256017	2021-06-10 16:51	IS2	B	313	30.2				E	648	10		J	RPD	S	0.92	0.48				E	22.8	5				E
10565256	SS-07	SWWW0106-061021	10565256018	2021-06-10 15:51	IS1	B	537	30.2				E	948	10		J	RPD	S	0.6	0.48				E	10.3	5				E
10565256	SS-01-P	SWWW0107-061021	10565256019	2021-06-10 18:15	IS4	B	27.8	1.2				E	157	5		J	RPD	S	1.1	0.48	M1	J-	MS	S	5	5	U			E
10565256	SS-01-P	SWWW0108-061021	10565256020	2021-06-10 17:15	IS3	B	25.9	1.2		J+	FB	S	155	5		J	RPD	S	0.48	0.48	U	UJ	MS	S	7.6	5	J			E
10565256	SS-01-P	SWWW0109-061021	10565256021	2021-06-10 16:15	IS2	B	24.2	1.2		J+	FB	S	134	5		J	RPD	S	0.74	0.48		J-	MS	S	28.6	5				E
10565256	SS-01-P	SWWW0110-061021	10565256022	2021-06-10 15:15	IS1	B	24.2	1.2		J+	FB	S	135	5				E	1.2	0.48		J-	MS	S	47.2	5	D6			E

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alk (mg $CaCO_3$/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CaDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	DOC (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Hardness (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	89	1.8				E	33.3	0.015				E							119	0.054				E
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	80	1.8				E	29.9	0.015				E							109	0.054				E
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	75.5	1.8				E	26.9	0.015				E							101	0.054				E
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	103	1.8				E	38.9	0.015				E							138	0.054				E
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	89.7	1.8				E	30.4	0.015				E							110	0.054				E
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	81.2	1.8				E	30.1	0.015				E							109	0.054				E
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	84.7	1.8				E	31.3	0.015				E							114	0.054				E
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	100	1.8				E	37.2	0.015				E							131	0.054				E
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	57.1	1.8	H5			E	263	0.3	P6			E							687	1.1				E
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	60.5	1.8	H5			E	266	0.3				E							694	1.1				E
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	49.1	1.8	H5			E	278	0.36	P6			E							723	1.2				E
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	55.9	1.8	H5			E	245	0.3				E							643	1.1				E
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	62.6	1.8	H5			E	241	0.3				E							633	1.1				E
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	53.9	1.8	H5			E	267	0.3				E							696	1.1				E
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	47.4	1.8	H5			E	225	0.3				E							590	1.1				E
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	53.6	1.8	H5			E	308	0.3				E							803	1.1				E
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	81.2	1.8	H5			E	162	0.15				E	4.6	0.3				E	440	0.54				E
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	79.5	1.8	H5			E	159	0.15				E	3.8	0.3				E	434	0.54				E
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	74.5	1.8	H5			E	142	0.15				E	5	0.3				E	389	0.54				E
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	72	1.8	H5			E	171	0.15				E	7.2	0.3				E	466	0.54				E
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	73.2	1.8	H5				163	0.15					7.3	0.3					445	0.54				
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	1.8	1.8	U				0.019	0.015	J				0.3	0.3	U				0.064	0.054	J			
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	82.2	1.8				E	31.4	0.015				E	9.1	0.59				E	111	0.054				E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	85.2	1.8				E	31.4	0.015				E	9.7	0.59				E	111	0.054				E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	81.1	1.8				E	26.3	0.015				E	22.2	3				E	93.3	0.054				E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	78	1.8				E	23	0.015				E	46	3				E	83.8	0.054				E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	80.8	1.8				E	148	0.3				E	8.8	0.59				E	416	1.1				E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	75.5	1.8				E	226	0.3				E	4.1	0.3		J+	FB	S	612	1.1				E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	66.9	1.8				E	149	0.3				E	10.6	0.59				E	416	1.1				E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	72.3	1.8				E	103	0.3				E	14.5	0.59				E	291	1.1				E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	85.7	1.8				E	171	0.3				E	3.4	0.3		J+	FB	S	472	1.1				E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	75	1.8				E	201	0.3				E	5.1	0.3				E	550	1.1				E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	64.2	1.8				E	108	0.3				E	21.6	1.5				E	310	1.1				E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	77.5	1.8				E	262	0.3				E	4.9	0.3				E	695	1.1				E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	77.2	1.8					249	0.3					4.9	0.3					661	1.1				
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	1.8	1.8	U				0.026	0.015	J,B				0.48	0.3	J				0.084	0.054	J			
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	100	1.8				E	127	0.3				E	4	0.3		J+	FB	S	358	1.1				E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	102	1.8				E	105	0.3				E	5.3	0.3				E	302	1.1				E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	94.6	1.8				E	60.7	0.3				E	9	0.3				E	188	1.1				E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	90	1.8				E	205	0.3	P6			E	2.4	0.3		J+	FB	S	550	1.1				E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	86.2	1.8				E	34	0.015				E	6.6	1.5				E	119	0.054				E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	79	1.8				E	30.6	0.015				E	9.6	0.59				E	109	0.054				E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	78.1	1.8				E	29.6	0.018				E	11	0.59				E	106	0.06				E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	74.6	1.8				E	22.9	0.091				E	30.8	3				E	81	0.3				E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	74.7	1.8					22.3	0.091					31.7	3					80.2	0.3				
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	1.8	1.8	U				0.023	0.018	J				0.48	0.3	J				0.078	0.06	J			
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	85.9	1.8				E	30.6	0.091				E							111	0.3				E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	74.4	1.8				E	25.5	0.091				E							94.5	0.3				E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	66.9	1.8				E	21.7	0.091				E							80	0.3				E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	107	1.8				E	36	0.091				E							134	0.3				E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	75.7	1.8				E	25.3	0.091				E							93	0.3				E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	112	1.8				E	40.2	0.091				E							143	0.3				E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	114	1.8				E	43.8	0.018	P6			E							153	0.06				E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	109	1.8				E	42.2	0.018				E							147	0.06				E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	74.1	1.8				E	118	0.18				E							327	0.6				E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	73.7	1.8				E	231	0.18				E							608	0.6				E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	80	1.8				E	197	0.18				E							525	0.6				E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	134	1.8				E	36.7	0.018				E							121	0.06				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	MgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NH3-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NO_3/NO_2-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Total Phos (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	8.7	0.0039				E							1.1	0.078				E						
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	8.3	0.0039				E							0.98	0.078				E						
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	8.2	0.0039				E							0.9	0.078	B			E						
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	9.8	0.0039				E							1.2	0.078				E						
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	8.2	0.0039				E							0.98	0.078				E						
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	8.2	0.0039				E							0.87	0.078	B			E						
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	8.7	0.0039				E							0.91	0.078	B			E						
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	9.2	0.0039				E							1.2	0.078				E						
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	7.3	0.0039	M1	J+	MS	S							0.88	0.078	B			E						
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	7.3	0.0039		J+	MS	S							0.9	0.078	B			E						
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	7.2	0.0034	M1	J+	MS	S							0.7	0.078	B			E						
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	7.5	0.0039		J+	MS	S							0.44	0.078	B			E						
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	7.7	0.0039		J+	MS	S							0.93	0.078				E						
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	7.4	0.0039		J+	MS	S							0.84	0.078	B			E						
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	6.9	0.0039		J+	MS	S							0.77	0.078	B			E						
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	8.1	0.0039		J+	MS	S							0.85	0.078	B			E						
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	8.8	0.0039				E	0.03	0.03	U			E	0.72	0.078	B			E	0.089	0.05	J			E
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	8.8	0.0039				E	0.03	0.03	U			E	0.69	0.078	B			E	0.12	0.05				E
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	8.6	0.0039				E	0.03	0.03	U			E	0.64	0.078	B			E	0.1	0.05				E
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	9.3	0.0039				E	0.03	0.03	U			E	0.69	0.078	B			E	0.16	0.05				E
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	8.8	0.0039					0.03	0.03	U				0.69	0.078	B				0.1	0.05				
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	0.0041	0.0039	J				0.03	0.03	U				0.1	0.078	J,B				0.05	0.05	U			
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	7.9	0.0039				E	0.034	0.03	J			E	1.1	0.078				E	0.25	0.05				E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	7.9	0.0039				E	0.03	0.03	U			E	0.98	0.078				E	0.13	0.05				E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	6.7	0.0039				E	0.064	0.03	J			E	0.45	0.078	B			E	1.3	0.05				E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	6.4	0.0039				E	0.18	0.03				E	0.14	0.078	J,B			E	2.8	0.05				E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	11.1	0.0039				E	0.043	0.03	J			E	1.1	0.078				E	0.27	0.05				E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	11.2	0.0039				E	0.03	0.03	U			E	1.1	0.078				E	0.2	0.05				E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	10.9	0.0039				E	0.033	0.03	J			E	0.89	0.078	B			E	0.58	0.05				E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	8.2	0.0039				E	0.08	0.03	J			E	0.55	0.078	B			E	1.4	0.05				E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	11.1	0.0039				E	0.03	0.03	U			E	1.2	0.078				E	0.14	0.05				E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	11.6	0.0039				E	0.03	0.03	U			E	1.1	0.078				E	0.21	0.05				E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	9.7	0.0039				E	0.062	0.03	J			E	0.58	0.078	B			E	0.95	0.05				E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	9.9	0.0039				E	0.05	0.03	J			E	1.1	0.078				E	0.72	0.05				E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	9.5	0.0039					0.039	0.03	J				1.1	0.078					0.69	0.05				
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	0.0045	0.0039	J				0.03	0.03	U				0.082	0.078	J,B				0.05	0.05	U			
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	9.8	0.0039				E	0.03	0.03	U			E	0.89	0.078	B			E	0.081	0.05	J			E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	9.4	0.0039				E	0.03	0.03	U			E	0.92	0.078				E	0.088	0.05	J			E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	8.8	0.0039				E	0.03	0.03	U			E	0.69	0.078	B			E	0.5	0.05				E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	9.6	0.0039				E	0.03	0.03	U			E	1.1	0.078				E	0.41	0.099				E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	8.3	0.0039				E	0.03	0.03	U			E	1.1	0.078				E	0.12	0.05		J+	FB	S
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	7.9	0.0039				E	0.03	0.03	U			E	1.1	0.078				E	0.26	0.05		J+	FB	S
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	7.8	0.0034				E	0.03	0.03	U			E	0.98	0.078				E	0.29	0.05		J+	FB	S
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	5.8	0.0034				E	0.072	0.03	J			E	0.094	0.078	J,B			E	1.2	0.05		J+	FB	S
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	6	0.0034					0.071	0.03	J				0.1	0.078	J,B				1	0.05		J+	FB	
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	0.0048	0.0034	J,B				0.03	0.03	U				0.08	0.078	J,B				0.15	0.05				
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	8.5	0.0034				E							1.1	0.078				E						
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	7.5	0.0034				E							1	0.078				E						
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	6.3	0.0034				E							0.43	0.078	B			E						
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	10.8	0.0034				E							1.5	0.078				E						
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	7.2	0.0034				E							0.24	0.078	B			E						
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	10.4	0.0034				E							1.4	0.078				E						
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	10.6	0.0034				E							1.3	0.078				E						
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	10.1	0.0034				E							1.3	0.078				E						
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	8.1	0.0034				E							1.1	0.078				E						
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	7.5	0.0034				E							0.94	0.078				E						
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	8.2	0.0034				E							0.82	0.078				E						
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	7.1	0.0034				E							0.12	0.078	J,B			E						

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	SO_4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TDS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TKN (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565256	SS-01.35	SWWW0111-061021	10565256025	2021-06-10 19:33	IS4	B	28.2	1.2				E	176	5				E							12.9	5		J	FD	S
10565256	SS-01.35	SWWW0112-061021	10565256026	2021-06-10 18:33	IS3	B	27.2	1.2				E	179	5				E							16	5		J	FD	S
10565256	SS-01.35	SWWW0113-061021	10565256027	2021-06-10 17:33	IS2	B	28.3	1.2				E	167	5				E							46.2	5		J	FD	S
10565256	SS-01.35	SWWW0114-061021	10565256028	2021-06-10 16:33	IS1	B	31.9	1.2				E	196	5				E							24.6	5		J	FD	S
10565256	SS-04	SWWW0115-061021	10565256029	2021-06-10 20:04	IS4	B	29.5	1.2				E	177	5				E							8.3	5	J	J	FD	S
10565256	SS-04	SWWW0116-061021	10565256030	2021-06-10 19:04	IS3	B	27.5	1.2				E	105	5				E							20.3	5		J	FD	S
10565256	SS-04	SWWW0117-061021	10565256031	2021-06-10 18:04	IS2	B	32.1	1.2				E	167	5				E							26.5	5		J	FD	S
10565256	SS-04	SWWW0118-061021	10565256032	2021-06-10 17:04	IS1	B	32.4	1.2				E	207	5				E							12.2	5		J	FD	S
10565256	SS-05	SWWW0119-061021	10565256033	2021-06-10 18:03	IS4	B	33.2	1.2				E	1110	25				E							5	5	U	UJ	FD	S
10565256	SS-05	SWWW0120-061021	10565256034	2021-06-10 17:03	IS3	B	30.6	1.2				E	945	25				E							5	5	U	UJ	FD	S
10565256	SS-05	SWWW0121-061021	10565256035	2021-06-10 16:03	IS2	B	34.4	1.2				E	1080	25				E							25.6	5		J	FD	S
10565256	SS-05	SWWW0122-061021	10565256036	2021-06-10 15:03	IS1	B	21.5	1.2				E	762	10				E							82.5	5		J	FD	S
10565256	SS-06A	SWWW0123-061021	10565256037	2021-06-10 18:20	IS4	B	27.5	1.2				E	900	25				E							8.6	5	J	J	FD	S
10565256	SS-06A	SWWW0124-061021	10565256038	2021-06-10 17:20	IS3	B	30.3	1.2				E	1100	25				E							14.1	5		J	FD	S
10565256	SS-06A	SWWW0125-061021	10565256039	2021-06-10 16:20	IS2	B	25.7	1.2				E	924	10				E							68.4	5		J	FD	S
10565256	SS-06A	SWWW0126-061021	10565256040	2021-06-10 15:20	IS1	B	37.8	1.2				E	1170	25				E							16	5		J	FD	S
10565256	SS-07-P	SWWW0127-061021	10565256041	2021-06-10 18:51	IS4	B	400	24.2	P6			E	752	10				E	0.81	0.48				E	8.9	5	J	J	FD	S
10565256	SS-07-P	SWWW0128-061021	10565256042	2021-06-10 17:51	IS3	B	406	24.2	P6			E	702	10				E	0.71	0.48				E	12.6	5		J	FD	S
10565256	SS-07-P	SWWW0129-061021	10565256043	2021-06-10 16:51	IS2	B	390	12.1				E	632	10				E	0.52	0.48				E	20.7	5		J	FD	S
10565256	SS-07-P	SWWW0130-061021	10565256044	2021-06-10 15:51	IS1-N	B	443	24.2				E	796	10				E	1.2	0.48				E	32	5		J	FD	S
10565256	SS-07-P	SWWW0131-061021	10565256045	2021-06-10 15:51	IS1-D	B	410	24.2					810	10					1	0.48					68.6	5		J	FD	
10565256	SWQC	SWWW0132-061421	10565256046	2021-06-14 13:45	FB	B	1.2	1.2	U				5	5	U				0.48	0.48	U				5	5	U			
10568665	SS-01	SWWW0133-070121	10568665001	2021-07-01 17:26	IS4	B	29.5	1.2				E	185	5		J	FD	S	1.3	0.48				E	55.8	5				E
10568665	SS-01	SWWW0134-070121	10568665002	2021-07-01 16:26	IS3	B	31.3	1.2				E	123	5		J	FD	S	2.8	0.48				E	58.9	5				E
10568665	SS-01	SWWW0135-070121	10568665003	2021-07-01 15:26	IS2	B	28.3	1.2				E	171	5		J	FD	S	4.7	0.48				E	463	5				E
10568665	SS-01	SWWW0136-070121	10568665004	2021-07-01 14:26	IS1	B	26	1.2		J+	FB	S	208	10		J	FD	S	7.9	0.48				E	1130	10				E
10568665	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01 17:54	IS4	B	298	24.2				E	664	5		J	FD	S	1.1	0.48				E	71.6	5				E
10568665	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01 16:54	IS3	B	504	30.2				E	789	5		J	FD	S	0.9	0.48				E	81.9	5				E
10568665	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01 15:54	IS2	B	312	24.2				E	625	5		J	FD	S	2.3	0.48				E	288	5				E
10568665	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01 14:54	IS1	B	295	24.2				E	508	10		J	FD	S	6.1	0.48				E	807	10				E
10568665	SS-06G	SWWW0141-070121	10568665009	2021-07-01 17:54	IS4	B	338	30.2	M1	J+	MS	S	704	5		J	FD	S	0.62	0.48				E	62	5				E
10568665	SS-06G	SWWW0142-070121	10568665010	2021-07-01 16:54	IS3	B	418	24.2		J+	MS	S	830	5		J	FD	S	0.86	0.48				E	101	5				E
10568665	SS-06G	SWWW0143-070121	10568665011	2021-07-01 15:54	IS2	B	259	24.2		J+	MS	S	496	5		J	FD	S	3.1	0.48				E	339	5				E
10568665	SS-06G	SWWW0144-070121	10568665012	2021-07-01 14:54	IS1-N	B	542	30.2		J+	MS	S	1060	5		J	FD	S	2.9	0.48				E	249	5				E
10568665	SS-06G	SWWW0145-070121	10568665013	2021-07-01 14:54	IS1-D	B	566	30.2		J+	MS		548	5		J	FD		3	0.48					204	5				
10568665	SWQC	SWWW0146-070621	10568665014	2021-07-06 12:00	FB	B	2.6	1.2					5	5	U				0.48	0.48	U				5	5	U			
10568665	SS-07	SWWW0147-070121	10568665015	2021-07-01 17:54	IS4	B	262	24.2		J+	MS	S	542	5		J	FD	S	0.8	0.48				E	37.7	5				E
10568665	SS-07	SWWW0148-070121	10568665016	2021-07-01 16:54	IS3	B	207	24.2		J+	MS	S	534	5		J	FD	S	0.77	0.48				E	57.2	5				E
10568665	SS-07	SWWW0149-070121	10568665017	2021-07-01 15:54	IS2	B	142	6		J+	MS	S	386	5		J	FD	S	2.2	0.48				E	255	5				E
10568665	SS-07	SWWW0150-070121	10568665018	2021-07-01 14:54	IS1	B	405	30.2	M1	J+	MS	S	900	5		J	FD	S	2	0.48	D6			E	122	5				E
10568665	SS-01-P	SWWW0151-070121	10568665019	2021-07-01 17:25	IS4	B	31.2	1.2				E	180	5				E	0.66	0.48		J	FD	S	37.7	5				E
10568665	SS-01-P	SWWW0152-070121	10568665020	2021-07-01 16:25	IS3	B	27.4	1.2				E	174	5				E	1.2	0.48		J	FD	S	96.8	5				E
10568665	SS-01-P	SWWW0153-070121	10568665021	2021-07-01 15:25	IS2	B	27.5	1.2				E	179	5				E	1.6	0.48		J	FD	S	182	5				E
10568665	SS-01-P	SWWW0154-070121	10568665022	2021-07-01 14:25	IS1-N	B	27.7	1.2				E	158	10				E	5.3	0.48		J	FD	S	984	10				E
10568665	SS-01-P	SWWW0155-070121	10568665023	2021-07-01 14:25	IS1-D	B	29.7	1.2					146	10					8.8	0.48		J	FD		836	10				
10568665	SWQC	SWWW0156-070621	10568665024	2021-07-06 12:15	FB	B	1.2	1.2	U				5	5	J				0.48	0.48	U				5	5	U			
10568665	SS-01.35	SWWW0157-070121	10568665025	2021-07-01 18:40	IS4	B	32.1	1.2				E	189	5				E							67.4	5				E
10568665	SS-01.35	SWWW0158-070121	10568665026	2021-07-01 17:40	IS3	B	30	1.2				E	165	5				E							147	5				E
10568665	SS-01.35	SWWW0159-070121	10568665027	2021-07-01 16:40	IS2	B	27.5	1.2				E	155	5				E							204	5				E
10568665	SS-01.35	SWWW0160-070121	10568665028	2021-07-01 15:40	IS1	B	35.7	1.2				E	209	5				E							208	5				E
10568665	SS-04	SWWW0161-070121	10568665029	2021-07-01 17:16	IS4	B	32.4	1.2		J+	MS	S	173	5				E							157	5				E
10568665	SS-04	SWWW0162-070121	10568665030	2021-07-01 16:16	IS3	B	36.2	1.2	M1	J+	MS	S	213	5				E							27.8	5	D6			E
10568665	SS-04	SWWW0163-070121	10568665031	2021-07-01 15:16	IS2	B	36.6	1.2		J+	MS	S	221	5				E							5	5	U			E
10568665	SS-04	SWWW0164-070121	10568665032	2021-07-01 14:16	IS1	B	35.6	1.2		J+	MS	S	223	5				E							11.9	5				E
10568665	SS-05	SWWW0165-070121	10568665033	2021-07-01 17:08	IS4	B	336	30.2	M1	J+	MS	S	662	5				E							110	5				E
10568665	SS-05	SWWW0166-070121	10568665034	2021-07-01 16:08	IS3	B	576	30.2				E	1020	5				E							47.5	5				E
10568665	SS-05	SWWW0167-070121	10568665035	2021-07-01 15:08	IS2	B	398	24.2				E	726	10				E							1180	10				E
10568665	SS-05	SWWW0168-070121	10568665036	2021-07-01 14:08	IS1	B	205	12.1				E	460	10				E							1760	10				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alk (mg $CaCO_3$/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CaDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	DOC (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Hardness (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	87.8	1.8				E	146	0.18				E							403	0.6				E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	74.9	1.8				E	225	0.18				E							596	0.6				E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	67	1.8				E	144	0.18				E							389	0.6				E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	77	1.8				E	259	0.18				E							681	0.6				E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	97	1.8				E	85.8	0.3	M1			E	6	0.3				E	254	1.1				E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	97	1.8				E	106	0.3				E	4.8	0.3		J+	FB	S	303	1.1				E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	98.2	1.8				E	62.5	0.3				E	7.1	0.3				E	193	1.1				E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	89.9	1.8				E	79.1	0.3				E	9.1	0.3				E	231	1.1				E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	103	1.8				E	33.3	0.018	P6			E	4.3	0.3		J+	MS	S	118	0.06				E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	90	1.8				E	32.3	0.018				E	11.8	1.5		J+	MS	S	117	0.06				E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	84.6	1.8				E	26.2	0.018				E	38.1	1.5		J+	MS	S	92.7	0.06				E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	97.7	1.8				E	30.7	0.018				E	36.9	1.5	M1	J+	MS	S	109	0.06				E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	55	1.8				E	246	0.18				E	3.5	0.3				E	650	0.6				E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	45.3	1.8				E	139	0.18				E	6.4	0.59				E	384	0.6				E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	46.4	1.8				E	107	0.18				E	9.5	1.5				E	291	0.6				E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	52.6	1.8				E	181	0.18				E	14.1	1.5				E	481	0.6				E
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	55.8	1.8				E	216	0.18	P6			E	3.8	0.3				E	576	0.6				E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	42.8	1.8				E	58.8	0.18				E	8.5	0.59				E	170	0.6				E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	41.2	1.8				E	131	0.18				E	15.8	1.5				E	353	0.6				E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	54.4	1.8				E	250	0.18				E	23.7	1.5				E	654	0.6				E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	55	1.8					251	0.18					20.8	1.5					658	0.6				
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	1.8	1.8	U				0.039	0.018	J				0.36	0.3	J				0.11	0.06	J			
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	83.6	1.8				E	119	0.18				E	5.3	0.3				E	335	0.6				E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	65.4	1.8				E	44.9	0.018				E	6.9	0.59				E	136	0.06				E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	78.7	1.8				E	113	0.18				E	17.4	1.5				E	311	0.6				E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	86.7	1.8				E	157	0.18				E	4.1	0.3				E	426	0.6				E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	102	1.8				E	33	0.018				E	3.7	0.59				E	118	0.06				E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	96.9	1.8				E	33.8	0.018				E	11.5	1.5				E	123	0.06				E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	79.2	1.8				E	28.3	0.018				E	23.9	1.5				E	105	0.06				E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	79	1.8				E	24.5	0.018				E	16	3				E	88.2	0.06				E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	75.8	1.8					25	0.018					15.7	3					90.5	0.06				
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	1.8	1.8	U				0.022	0.018	J				0.69	0.3	J				0.073	0.06	J			
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	76.7	1.8				E	31	0.018				E							112	0.06				E
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	67.5	1.8				E	27.3	0.018				E							99.2	0.06				E
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	87.9	1.8				E	34.7	0.018				E							125	0.06				E
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	109	1.8				E	37.9	0.018	P6			E							137	0.06				E
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	112	1.8				E	40.6	0.018				E							146	0.06				E
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	110	1.8				E	40.4	0.018				E							146	0.06				E
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	108	1.8				E	39.3	0.018				E							141	0.06				E
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	108	1.8				E	39.5	0.018				E							145	0.06				E
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	51.9	1.8				E	263	0.18				E							681	0.6				E
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	44.8	1.8				E	275	0.18				E							705	0.6				E
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	51.9	1.8				E	249	0.18				E							643	0.6				E
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	55.2	1.8				E	254	0.18				E							657	0.6				E
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	53.5	1.8				E	217	0.18				E							568	0.6				E
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	42.1	1.8				E	46	0.18				E							131	0.6				E
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	39.3	1.8				E	131	0.18				E							344	0.6				E
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	52.1	1.8				E	290	0.18				E							747	0.6				E
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	87.1	1.8				E	126	0.18	P6			E	5	0.3		J+	FB	S	351	0.6				E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	67.2	1.8				E	63.1	0.18				E	7	0.59				E	186	0.6				E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	73.4	1.8				E	99.5	0.18				E	9.4	1.5				E	277	0.6				E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	81.2	1.8				E	158	0.18				E	17.1	1.5				E	427	0.6				E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	53.1	1.8				E	12	0.018				E							41.8	0.06				E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	101	1.8				E	36	0.018				E							127	0.06				E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	99.6	1.8				E	35.4	0.018				E							126	0.06				E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	100	1.8				E	34.1	0.018				E							123	0.06				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	MgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NH3-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NO_3/NO_2-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Total Phos (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	9.1	0.0034				E							1.2	0.078				E						
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	8.4	0.0034				E							1	0.078				E						
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	7.4	0.0034				E							0.72	0.078	B			E						
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	8.4	0.0034				E							1	0.078				E						
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	9.7	0.0039				E	0.03	0.03	U			E	0.88	0.078				E	0.13	0.05		J+	FB	S
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	9.4	0.0039				E	0.03	0.03	U			E	0.9	0.078				E	0.093	0.05	J	UJ	FB	S
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	8.9	0.0039				E	0.03	0.03	U			E	0.83	0.078	B			E	0.28	0.05		J+	FB	S
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	8	0.0039				E	0.048	0.03	J			E	0.66	0.078	B			E	0.85	0.05		J+	FB	S
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	8.4	0.0034				E	0.03	0.03	U			E	1.1	0.078				E	0.05	0.05	U			E
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	8.7	0.0034				E	0.067	0.03	J	UJ	FB	S	1.1	0.078				E	0.083	0.05	J			E
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	6.6	0.0034				E	0.17	0.03		J+	FB	S	0.97	0.078				E	0.5	0.05				E
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	7.9	0.0034				E	0.22	0.03		J+	FB	S	1.1	0.078				E	0.86	0.05				E
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	8.6	0.0034				E	0.036	0.03	J	UJ	FB	S	0.77	0.078				E	0.05	0.05	U			E
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	8.8	0.0034				E	0.11	0.03		J+	FB	S	0.62	0.078				E	0.57	0.05				E
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	5.6	0.0034				E	0.16	0.03		J+	FB	S	0.57	0.078				E	0.85	0.05				E
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	6.9	0.0034				E	0.03	0.03	U			E	0.78	0.078				E	0.17	0.05				E
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	8.7	0.0034				E	0.037	0.03	J	UJ	FB	S	0.78	0.078				E	0.05	0.05	U			E
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	5.7	0.0034				E	0.16	0.03		J+	FB	S	0.52	0.078				E	0.99	0.05				E
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	6.1	0.0034				E	0.07	0.03	J	UJ	FB	S	0.71	0.078				E	0.26	0.05				E
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	7.5	0.0034				E	0.03	0.03	U			E	0.7	0.078				E	0.05	0.05	U			E
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	7.4	0.0034					0.03	0.03	U				0.83	0.078					0.05	0.05	U			
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	0.0042	0.0034	J,B				0.065	0.03	J				0.078	0.078	U				0.05	0.05	U			
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	9.2	0.0034				E	0.041	0.03	J	UJ	FB	S	1.4	0.078				E	0.14	0.05				E
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	5.8	0.0034				E	0.083	0.03	J	UJ	FB	S	0.88	0.078				E	1	0.05				E
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	7.2	0.0034				E	0.03	0.03	U			E	1.3	0.078				E	0.17	0.05				E
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	8.5	0.0034				E	0.03	0.03	U			E	1.5	0.078				E	0.05	0.05	U			E
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	8.7	0.0034				E	0.03	0.03	U			E	1.2	0.078				E	0.05	0.05	U			E
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	9.3	0.0034				E	0.03	0.03	U			E	1.1	0.078				E	0.068	0.05	J			E
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	8.3	0.0034				E	0.03	0.03	U			E	1	0.078				E	0.24	0.05				E
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	6.6	0.0034				E	0.066	0.03	J			E	0.79	0.078				E	1.1	0.05				E
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	6.8	0.0034					0.067	0.03	J				0.78	0.078					1.1	0.05				
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	0.004	0.0034	J				0.03	0.03	U				0.078	0.078	U				0.05	0.05	U			
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	8.5	0.0034				E							0.92	0.078				E						
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	7.6	0.0034				E							0.8	0.078				E						
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	9.4	0.0034				E							1	0.078				E						
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	10.3	0.0034				E							1.2	0.078				E						
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	10.8	0.0034				E							1	0.078				E						
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	10.9	0.0034				E							1	0.078				E						
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	10.5	0.0034				E							1.1	0.078				E						
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	11.3	0.0034				E							1.1	0.078				E						
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	6	0.0034				E							0.68	0.078				E						
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	4.6	0.0034				E							0.66	0.078				E						
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	5.3	0.0034				E							0.76	0.078				E						
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	5.3	0.0034				E							0.64	0.078				E						
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	6.4	0.0034				E							0.71	0.078				E						
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	4	0.0034				E							0.45	0.078				E						
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	4.2	0.0034				E							0.61	0.078				E						
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	5.9	0.0034				E							0.73	0.078				E						
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	9	0.0034				E	0.03	0.03	U			E	1.3	0.078				E	0.05	0.05	U			E
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	6.9	0.0034				E	0.058	0.03	J			E	1	0.078				E	0.6	0.05				E
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	6.8	0.0034				E	0.03	0.03	U			E	1.2	0.078				E	0.29	0.05				E
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	8.2	0.0034				E	0.03	0.03	U			E	1.4	0.078				E	0.05	0.05	U			E
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	2.9	0.0034				E							0.56	0.078				E						
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	9.1	0.0034				E							1.2	0.078				E						
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	9.2	0.0034				E							1.3	0.078				E						
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	9.2	0.0034				E							1.2	0.078				E						

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	SO_4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TDS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TKN (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10568665	SS-06A	SWWW0169-070121	10568665037	2021-07-01 17:26	IS4	B	344	30.2	M1	J+	MS	S	641	5				E							77.8	5				E
10568665	SS-06A	SWWW0170-070121	10568665038	2021-07-01 16:26	IS3	B	496	24.2				E	914	5				E							88.2	5				E
10568665	SS-06A	SWWW0171-070121	10568665039	2021-07-01 15:26	IS2	B	364	30.2		J+	MS	S	643	5				E							465	5				E
10568665	SS-06A	SWWW0172-070121	10568665040	2021-07-01 14:26	IS1	B	557	24.2				E	1070	5				E							178	5				E
10568665	SS-07-P	SWWW0173-070121	10568665041	2021-07-01 17:53	IS4	B	239	12.1				E	525	5				E	0.82	0.48				E	38	5				E
10568665	SS-07-P	SWWW0174-070121	10568665042	2021-07-01 16:53	IS3	B	301	12.1				E	631	5				E	0.89	0.48				E	43.7	5				E
10568665	SS-07-P	SWWW0175-070121	10568665043	2021-07-01 15:53	IS2	B	162	6				E	135	5		J	RPD	S	1.6	0.48				E	172	5				E
10568665	SS-07-P	SWWW0176-070121	10568665044	2021-07-01 14:53	IS1	B	234	12.1				E	511	5	D6	J	RPD	S	3.3	0.48				E	418	5				E
10572927	SS-01	SWWW0177-080121	10572927001	2021-08-01 23:56	IS4	B	30.5	1.2				E	225	5	D6			E	0.7	0.48				E	8.3	5	J	J	RPD	S
10572927	SS-01	SWWW0178-080121	10572927002	2021-08-01 22:56	IS3	B	29.1	1.2				E	206	5				E	0.84	0.48				E	49.6	5		J	RPD	S
10572927	SS-01	SWWW0179-080121	10572927003	2021-08-01 21:56	IS2	B	28.9	1.2				E	105	5				E	2.4	0.48				E	128	5		J	RPD	S
10572927	SS-01	SWWW0180-080121	10572927004	2021-08-01 20:56	IS1	B	33.1	1.2				E	262	5				E	5	0.48				E	231	5		J	RPD	S
10572927	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01 20:05	IS4	B	645	24.2				E	1150	5				E	0.71	0.48		J+	MS	S	24.9	5		J	RPD	S
10572927	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01 19:05	IS3	B	367	24.2				E	694	5				E	1.9	0.48		J+	MS	S	198	5		J	RPD	S
10572927	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01 18:05	IS2	B	274	24.2				E	501	5				E	2.6	0.48		J+	MS	S	271	5		J	RPD	S
10572927	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01 17:05	IS1	B	528	24.2				E	987	5				E	1.5	0.48		J+	MS	S	36.2	5		J	RPD	S
10572927	SS-06G	SWWW0185-080121	10572927009	2021-08-01 20:05	IS4	B	553	24.2	M1			E	989	5				E	0.48	0.48	U,M1			E	64.2	5	D6	J	RPD	S
10572927	SS-06G	SWWW0186-080121	10572927010	2021-08-01 19:05	IS3	B	173	24.2				E	314	5				E	2.7	0.48		J+	MS	S	372	5		J	RPD	S
10572927	SS-06G	SWWW0187-080121	10572927011	2021-08-01 18:05	IS2	B	319	24.2				E	615	5				E	1.9	0.48		J+	MS	S	103	5		J	RPD	S
10572927	SS-06G	SWWW0188-080121	10572927012	2021-08-01 17:05	IS1-N	B	701	24.2				E	1200	5				E	0.48	0.48	U			E	6.6	5	J	J	RPD	S
10572927	SS-06G	SWWW0189-080121	10572927013	2021-08-01 17:05	IS1-D	B	651	24.2					1190	5					0.48	0.48	U				10.1	5		J	RPD	
10572927	SWQC	SWWW0190-080221	10572927014	2021-08-02 16:00	FB	B	1.2	1.2	U				5	5	U				0.48	0.48	U				5	5	U			
10572927	SS-07	SWWW0191-080121	10572927015	2021-08-01 19:46	IS4	B	302	24.2				E	620	5				E	0.75	0.48		J+	MS	S	73.9	5		J	RPD	S
10572927	SS-07	SWWW0192-080121	10572927016	2021-08-01 18:46	IS3	B	123	24.2				E	278	5				E	2.5	0.48		J+	MS	S	386	5		J	RPD	S
10572927	SS-07	SWWW0193-080121	10572927017	2021-08-01 17:46	IS2	B	296	24.2				E	454	5				E	1.9	0.48		J+	MS	S	46.8	5		J	RPD	S
10572927	SS-07	SWWW0194-080121	10572927018	2021-08-01 16:46	IS1	B	356	30.2				E	776	5				E	0.5	0.48	J	J+	MS	S	5	5	U	UJ	RPD	S
10572927	SS-01-P	SWWW0195-080121	10572927019	2021-08-01 23:56	IS4	B	32.5	1.2				E	211	5				E	0.48	0.48	U			E	5	5	U	UJ	RPD	S
10572927	SS-01-P	SWWW0196-080121	10572927020	2021-08-01 22:56	IS3	B	33	1.2				E	214	5				E	0.48	0.48	U			E	8.3	5	J	J	RPD	S
10572927	SS-01-P	SWWW0197-080121	10572927021	2021-08-01 21:56	IS2	B	29.4	1.2				E	198	5				E	1.7	0.48				E	94.9	5	D6	J	RPD	S
10572927	SS-01-P	SWWW0198-080121	10572927022	2021-08-01 20:56	IS1-N	B	27.5	1.2				E	184	5				E	5.2	0.48				E	317	5		J	FD,RPD	S
10572927	SS-01-P	SWWW0199-080121	10572927023	2021-08-01 20:56	IS1-D	B	27.9	1.2					175	5					5.6	0.48					545	5		J	FD,RPD	
10572927	SWQC	SWWW0200-080321	10572927024	2021-08-03 09:30	FB	B	1.2	1.2	U				5	5	U				0.48	0.48	U				5	5	U			
10572927	SS-01.35	SWWW0201-080221	10572927025	2021-08-02 00:58	IS4	B	36.6	1.2				E	200	5				E							43.5	5		J	FD,RPD	S
10572927	SS-01.35	SWWW0202-080121	10572927026	2021-08-01 23:58	IS3	B	33.9	1.2				E	190	5				E							113	5		J	FD,RPD	S
10572927	SS-01.35	SWWW0203-080121	10572927027	2021-08-01 22:58	IS2	B	36.3	1.2				E	240	5				E							104	5		J	FD,RPD	S
10572927	SS-01.35	SWWW0204-080121	10572927028	2021-08-01 21:58	IS1	B	36.2	1.2				E	229	5				E							5	5	U	UJ	FD,RPD	S
10572927	SS-04	SWWW0205-080121	10572927029	2021-08-01 19:43	IS4	B	39.1	1.2				E	244	5				E							5	5	U	UJ	FD,RPD	S
10572927	SS-04	SWWW0206-080121	10572927030	2021-08-01 18:43	IS3	B	38.7	1.2				E	251	5				E							5	5	U	UJ	FD,RPD	S
10572927	SS-04	SWWW0207-080121	10572927031	2021-08-01 17:43	IS2	B	36.1	1.2				E	235	5				E							5	5	U	UJ	FD,RPD	S
10572927	SS-04	SWWW0208-080121	10572927032	2021-08-01 16:43	IS1	B	36.3	1.2				E	244	5				E							5	5	U	UJ	FD,RPD	S
10572927	SS-05	SWWW0209-080121	10572927033	2021-08-01 19:22	IS4	B	605	30.2	P6			E	1220	5				E							29.2	5		J	FD,RPD	S
10572927	SS-05	SWWW0210-080121	10572927034	2021-08-01 18:22	IS3	B	527	30.2				E	1040	5				E							143	5		J	FD,RPD	S
10572927	SS-05	SWWW0211-080121	10572927035	2021-08-01 17:22	IS2	B	575	30.2				E	1140	5				E							27.4	5		J	FD,RPD	S
10572927	SS-05	SWWW0212-080121	10572927036	2021-08-01 16:22	IS1	B	553	30.2				E	1140	5				E							26.3	5		J	FD,RPD	S
10572927	SS-06A	SWWW0213-080121	10572927037	2021-08-01 19:36	IS4	B	635	30.2				E	1100	5				E							42.3	5		J	FD,RPD	S
10572927	SS-06A	SWWW0214-080121	10572927038	2021-08-01 18:36	IS3	B	93	6				E	188	5				E							205	5		J	FD,RPD	S
10572927	SS-06A	SWWW0215-080121	10572927039	2021-08-01 17:36	IS2	B	303	30.2				E	647	5				E							74.2	5		J	FD,RPD	S
10572927	SS-06A	SWWW0216-080121	10572927040	2021-08-01 16:36	IS1	B	634	30.2				E	1110	5				E							6.2	5	J	J	FD,RPD	S
10572927	SS-07-P	SWWW0217-080121	10572927041	2021-08-01 19:46	IS4	B	291	30.2				E	724	5				E	0.59	0.48				E	33.1	5		J	FD,RPD	S
10572927	SS-07-P	SWWW0218-080121	10572927042	2021-08-01 18:46	IS3	B	153	6				E	355	5				E	1.7	0.48				E	196	5		J	FD,RPD	S
10572927	SS-07-P	SWWW0219-080121	10572927043	2021-08-01 17:46	IS2	B	240	30.2				E	560	5				E	1.5	0.48				E	100	5	D6	J	FD,RPD	S
10572927	SS-07-P	SWWW0220-080121	10572927044	2021-08-01 16:46	IS1	B	404	30.2				E	754	5				E	1	0.48				E	24	5	D6	J	FD,RPD	S
10574117	SS-01	SWWW0221-080821	10574117001	2021-08-08 19:26	IS4	B	17.4	1.2				E	88	5	D6	J	RPD	S							197	5				E
10574117	SS-01	SWWW0222-080821	10574117002	2021-08-08 18:26	IS3	B	32	1.2				E	199	5		J	RPD	S							5	5	U			E
10574117	SS-01	SWWW0223-080821	10574117003	2021-08-08 17:26	IS2	B	33.4	1.2				E	203	5		J	RPD	S							5	5	U			E
10574117	SS-01	SWWW0224-080821	10574117004	2021-08-08 16:26	IS1	B	33.7	1.2				E	156	5		J	RPD	S							8.1	5	J			E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alk (mg $CaCO_3$/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CaDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	DOC (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Hardness (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	56.5	1.8				E	92.4	0.36				E							261	1.2				E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	57.8	1.8				E	109	0.36				E							300	1.2				E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	40.9	1.8				E	125	0.36				E							336	1.2				E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	49.3	1.8				E	126	0.36				E							341	1.2				E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	67.6	1.8				E	91.9	0.36				E							262	1.2				E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	50.1	1.8				E	153	0.36				E							411	1.2				E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	34.6	1.8				E	59.2	0.36				E							168	1.2				E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	59.7	1.8				E	210	0.36				E							558	1.2				E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	60.1	1.8					210	0.36											558	1.2				
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	1.8	1.8	U				0.018	0.018	U										0.06	0.06	U			
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	86.7	1.8				E	69.6	0.36	P6			E							207	1.2				E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	78.5	1.8				E	105	0.36				E							293	1.2				E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	81.4	1.8				E	48	0.36				E							147	1.2				E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	84.3	1.8				E	137	0.36				E							374	1.2				E
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	38.2	1.8				E	12.5	0.018				E							44.1	0.06				E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	78.6	1.8				E	22.9	0.018				E							81	0.06				E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	103	1.8				E	38.1	0.36				E							132	1.2				E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	102	1.8				E	36.6	0.36				E							128	1.2				E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	55.9	1.8				E	18.1	0.36	P6			E							68.5	1.2				E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	43.9	1.8				E	18.3	0.36				E							63	1.2				E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	52.3	1.8				E	22.2	0.36				E							78.6	1.2				E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	105	1.8				E	38.6	0.36				E							135	1.2				E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	50.4	1.8				E	23.2	0.36				E							81.6	1.2				E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	105	1.8				E	40.9	0.36				E							142	1.2				E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	111	1.8				E	41.2	0.36				E							145	1.2				E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	111	1.8				E	42.6	0.36				E							148	1.2				E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	59.4	1.8				E	67.8	0.36	P6			E							194	1.2				E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	63.9	1.8				E	106	0.36				E							288	1.2				E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	51.6	1.8				E	123	0.36				E							326	1.2				E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	51	1.8				E	169	0.36				E							448	1.2				E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	52.5	1.8					166	0.36											439	1.2				
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	1.8	1.8	U				0.04	0.018											0.13	0.06	J			
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	64.1	1.8				E	80.5	0.36				E							228	1.2				E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	47.7	1.8				E	101	0.36				E							273	1.2				E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	34.5	1.8				E	54.9	0.36				E							148	1.2				E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	57.2	1.8				E	199	0.36				E							521	1.2				E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	79.2	1.8				E	66.7	0.36				E							197	1.2				E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	82.5	1.8				E	75.8	0.36				E							220	1.2				E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	79.9	1.8				E	78.1	0.36				E							224	1.2				E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	80.9	1.8				E	87	0.36				E							247	1.2				E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	82	1.8				E	37.3	0.018	P6			E							125	0.06				E
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	71.1	1.8				E	43.8	0.36				E							138	1.2				E
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	53	1.8				E	121	0.36				E							328	1.2				E
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	55.4	1.8				E	125	0.36				E							338	1.2				E
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	82.7	1.8				E	39.5	0.018				E							132	0.06				E
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	60.8	1.8				E	65.1	0.36				E							183	1.2				E
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	41	1.8				E	61.1	0.36				E							178	1.2				E
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	78	1.8				E	206	0.36				E							549	1.2				E
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	76.5	1.8					214	0.36											572	1.2				
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	1.8	1.8	U				0.026	0.018	J										0.077	0.06	J			
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	101	1.8				E	36.3	0.018				E							123	0.06				E
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	86	1.8				E	55	0.36				E							164	1.2				E
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	76.8	1.8				E	55	0.36				E							162	1.2				E
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	93.8	1.8				E	155	0.36				E							418	1.2				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	MgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NH3-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NO_3/NO_2-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Total Phos (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	7.3	0.0034				E							0.84	0.078				E						
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	7.1	0.0034				E							0.8	0.078				E						
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	6	0.0034				E							0.67	0.078				E						
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	6.3	0.0034				E							0.77	0.078				E						
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	8	0.0034				E							1	0.078				E						
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	7.2	0.0034				E							0.66	0.078				E						
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	5	0.0034				E							0.6	0.078				E						
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	8	0.0034				E							0.96	0.078				E						
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	8.1	0.0034											0.99	0.078										
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	0.0034	0.0034	U										0.078	0.078	U									
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	8	0.0034				E							1.1	0.078				E						
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	7.6	0.0034				E							1	0.078				E						
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	6.6	0.0034				E							1.2	0.078				E						
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	8.1	0.0034				E							1.4	0.078				E						
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	3.1	0.0034				E							0.47	0.078				E						
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	5.8	0.0034				E							0.94	0.078				E						
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	8.9	0.0034		J-	MS	S							1.3	0.078				E						
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	8.9	0.0034		J-	MS	S							1	0.078				E						
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	5.7	0.0034	M1	J-	MS	S							0.66	0.078				E						
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	4.2	0.0034		J-	MS	S							0.53	0.078				E						
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	5.6	0.0034		J-	MS	S							0.64	0.078				E						
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	9.4	0.0034		J-	MS	S							1.4	0.078				E						
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	5.7	0.0034		J-	MS	S							0.6	0.078				E						
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	9.6	0.0034		J-	MS	S							1.4	0.078				E						
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	10.3	0.0034		J-	MS	S							1.3	0.078				E						
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	10.2	0.0034		J-	MS	S							1.3	0.078				E						
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	6.1	0.0034				E							0.82	0.078				E						
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	5.9	0.0034				E							0.85	0.078				E						
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	4.7	0.0034				E							0.78	0.078				E						
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	6.1	0.0034				E							0.53	0.078				E						
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	6	0.0034											0.53	0.078										
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	0.0084	0.0034	J										0.078	0.078	U									
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	6.5	0.0034				E							0.96	0.078				E						
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	4.8	0.0034				E							0.62	0.078				E						
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	2.8	0.0034				E							0.44	0.078				E						
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	5.7	0.0034				E							0.96	0.078				E						
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	7.4	0.0034				E							1	0.078				E						
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	7.4	0.0034				E							1.1	0.078				E						
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	7.1	0.0034				E							1	0.078				E						
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	7.1	0.0034				E							1.2	0.078				E						
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	7.8	0.0034	M1	J-	MS	S							1.1	0.078				E						
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	6.9	0.0034		J-	MS	S							0.97	0.078				E						
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	6.6	0.0034		J-	MS	S							0.83	0.078				E						
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	6.1	0.0034		J-	MS	S							0.9	0.078				E						
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	8	0.0034		J-	MS	S							1.1	0.078				E						
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	5	0.0034		J-	MS	S							0.86	0.078				E						
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	6.3	0.0034		J-	MS	S							0.75	0.078				E						
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	8.2	0.0034		J-	MS	S							1.2	0.078				E						
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	8.8	0.0034		J-	MS								1.2	0.078										
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	0.0034	0.0034	U										0.084	0.078	J									
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	7.8	0.0034		J-	MS	S							0.84	0.078				E						
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	6.6	0.0034		J-	MS	S							0.68	0.078				E						
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	6.1	0.0034		J-	MS	S							0.55	0.078				E						
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	7.9	0.0034		J-	MS	S							0.92	0.078				E						

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	SO_4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TDS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TKN (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574117	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08 22:35	IS4	B	186	6				E	394	5		J	RPD	S							38	5				E
10574117	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08 21:35	IS3	B	262	12.1				E	290	5		J	RPD	S							55.7	5				E
10574117	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08 20:35	IS2	B	296	12.1				E	530	5		J	RPD	S							35.5	5				E
10574117	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08 19:35	IS1	B	325	12.1				E	590	5		J	RPD	S							50.9	5				E
10574117	SS-06G	SWWW0229-080821	10574117009	2021-08-08 22:35	IS4	B	185	6				E	408	5		J	RPD	S							51.4	5				E
10574117	SS-06G	SWWW0230-080821	10574117010	2021-08-08 21:35	IS3	B	341	12.1				E	609	5		J	RPD	S							87	5				E
10574117	SS-06G	SWWW0231-080821	10574117011	2021-08-08 20:35	IS2	B	146	6				E	292	5		J	RPD	S							58.3	5				E
10574117	SS-06G	SWWW0232-080821	10574117012	2021-08-08 19:35	IS1-N	B	508	30.2		J-	MS	S	929	5		J	RPD	S							26.7	5				E
10574117	SS-06G	SWWW0233-080821	10574117013	2021-08-08 19:35	IS1-D	B	504	30.2		J-	MS		925	5		J	RPD								25	5				
10574117	SWQC	SWWW0234-080921	10574117014	2021-08-09 14:45	FB	B	1.6	1.2	J				5	5	U										5	5	U			
10574117	SS-07	SWWW0235-080821	10574117015	2021-08-08 22:41	IS4	B	160	6	M1	J-	MS	S	384	5		J	RPD	S							42.3	5	D6			E
10574117	SS-07	SWWW0236-080821	10574117016	2021-08-08 21:41	IS3	B	223	30.2		J-	MS	S	513	5		J	RPD	S							54.4	5				E
10574117	SS-07	SWWW0237-080821	10574117017	2021-08-08 20:41	IS2	B	119	6		J-	MS	S	314	5		J	RPD	S							34.7	5				E
10574117	SS-07	SWWW0238-080821	10574117018	2021-08-08 19:41	IS1	B	347	30.2		J-	MS	S	676	5		J	RPD	S							15.9	5				E
10574117	SS-01-P	SWWW0239-080821	10574117019	2021-08-08 19:26	IS4	B	12.1	1.2				E	49	5		J	RPD	S							240	5				E
10574117	SS-01-P	SWWW0240-080821	10574117020	2021-08-08 18:26	IS3	B	26.4	1.2				E	97	5		J	RPD	S							296	5				E
10574117	SS-01-P	SWWW0241-080821	10574117021	2021-08-08 17:26	IS2	B	35.6	1.2				E	100	5		J	RPD	S							5	5	U			E
10574117	SS-01-P	SWWW0242-080821	10574117022	2021-08-08 16:26	IS1	B	34.6	1.2				E	207	5	D6	J	RPD	S							9.1	5	J			E
10574117	SS-01.35	SWWW0243-080821	10574117023	2021-08-08 22:46	IS4	B	30.3	1.2				E	93	5	D6	J	RPD	S							31	5				E
10574117	SS-01.35	SWWW0244-080821	10574117024	2021-08-08 21:46	IS3	B	21.1	1.2				E	67	5		J	RPD	S							61.7	5				E
10574117	SS-01.35	SWWW0245-080821	10574117025	2021-08-08 20:46	IS2	B	23.8	1.2				E	102	5		J	RPD	S							198	5				E
10574117	SS-01.35	SWWW0246-080821	10574117026	2021-08-08 19:46	IS1	B	37.9	1.2				E	128	5		J	RPD	S							7.3	5	J			E
10574117	SS-04	SWWW0247-080821	10574117027	2021-08-08 22:03	IS4	B	24.8	1.2				E	140	5		J	RPD	S							78.3	5				E
10574117	SS-04	SWWW0248-080821	10574117028	2021-08-08 21:03	IS3	B	39.3	1.2				E	224	5		J	RPD	S							8.1	5	J			E
10574117	SS-04	SWWW0249-080821	10574117029	2021-08-08 20:03	IS2	B	39.1	1.2				E	169	5		J	RPD	S							5	5	U			E
10574117	SS-04	SWWW0250-080821	10574117030	2021-08-08 19:03	IS1	B	39.1	1.2				E	216	5		J	RPD	S							5	5	U			E
10574117	SS-05	SWWW0251-080821	10574117031	2021-08-08 21:51	IS4	B	146	6		J-	MS	S	166	5		J	RPD	S							69.3	5				E
10574117	SS-05	SWWW0252-080821	10574117032	2021-08-08 20:51	IS3	B	164	6				E	219	5		J	RPD	S							63	5				E
10574117	SS-05	SWWW0253-080821	10574117033	2021-08-08 19:51	IS2	B	368	30.2				E	757	5		J	RPD	S							47.2	5				E
10574117	SS-05	SWWW0254-080821	10574117034	2021-08-08 18:51	IS1-N	B	255	12.1				E	475	5		J	RPD	S							515	5				E
10574117	SS-05	SWWW0255-080821	10574117035	2021-08-08 18:51	IS1-D	B	240	12.1					447	5		J	RPD								490	5				
10574117	SWQC	SWWW0256-081021	10574117036	2021-08-10 10:35	FB	B	1.2	1.2	U				5	5	U										5	5	U			
10574117	SS-06A	SWWW0257-080821	10574117037	2021-08-08 22:09	IS4	B	192	6				E	386	5		J	RPD	S							58.3	5				E
10574117	SS-06A	SWWW0258-080821	10574117038	2021-08-08 21:09	IS3	B	268	12.1				E	486	5		J	RPD	S							95.7	5				E
10574117	SS-06A	SWWW0259-080821	10574117039	2021-08-08 20:09	IS2	B	167	6				E	87	5		J	RPD	S							61.3	5				E
10574117	SS-06A	SWWW0260-080821	10574117040	2021-08-08 19:09	IS1	B	461	30.2				E	922	5		J	RPD	S							12.4	5				E
10574117	SS-07-P	SWWW0261-080821	10574117041	2021-08-08 22:41	IS4	B	152	6				E	370	5		J	RPD	S							29.7	5				E
10574117	SS-07-P	SWWW0262-080821	10574117042	2021-08-08 21:41	IS3	B	182	6				E	436	5		J	RPD	S							40.2	5				E
10574117	SS-07-P	SWWW0263-080821	10574117043	2021-08-08 20:41	IS2	B	212	12.1				E	468	5				E							27.4	5				E
10574117	SS-07-P	SWWW0264-080821	10574117044	2021-08-08 19:41	IS1	B	232	12.1				E	485	5				E							43.5	5	D6			E
10575368	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18 05:25	IS4	B	60.7	2.4	M1	J-	MS	S	246	5				E							41.8	5	D6	J	FD	S
10575368	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18 04:35	IS3	B	89.3	6		J-	MS	S	284	5				E							47	5		J	FD	S
10575368	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18 03:35	IS2	B	256	30.2		J-	MS	S	556	5				E							41	5		J	FD	S
10575368	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18 02:35	IS1	B	282	30.2		J-	MS	S	611	5				E							96.1	5		J	FD	S
10575368	SS-06G	SWWW0269-081821	10575368005	2021-08-18 05:36	IS4	B	60.5	2.4		J-	MS	S	245	5				E							39.4	5		J	FD	S
10575368	SS-06G	SWWW0270-081821	10575368006	2021-08-18 04:36	IS3	B	165	6				E	349	5				E							60.8	5		J	FD	S
10575368	SS-06G	SWWW0271-081821	10575368007	2021-08-18 03:36	IS2	B	187	6				E	351	5				E							59.7	5		J	FD	S
10575368	SS-06G	SWWW0272-081821	10575368008	2021-08-18 02:36	IS1-N	B	542	24.2				E	944	10				E							66.2	5		J	FD	S
10575368	SS-06G	SWWW0273-081821	10575368009	2021-08-18 02:36	IS1-D	B	510	24.2					932	10											36.4	5		J	FD	
10575368	SWQC	SWWW0274-081921	10575368010	2021-08-19 12:00	FB	B	1.2	1.2	U				5	5	U										5	5	U			
10575368	SS-07	SWWW0275-081821	10575368011	2021-08-18 05:42	IS4	B	62.8	2.4				E	272	5				E							23.6	5		J	FD	S
10575368	SS-07	SWWW0276-081821	10575368012	2021-08-18 04:42	IS3	B	131	6				E	343	5				E							37	5		J	FD	S
10575368	SS-07	SWWW0277-081821	10575368013	2021-08-18 03:42	IS2	B	148	6				E	348	5				E							31.5	5		J	FD	S
10575368	SS-07	SWWW0278-081821	10575368014	2021-08-18 02:42	IS1	B	375	24.2				E	794	10				E							35	5		J	FD	S

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Alk (mg $CaCO_3$/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CaDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	DOC (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Hardness (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	69.2	1.8				E	22.8	0.018				E							78.6	0.06				E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	107	1.8				E	36.7	0.018				E							126	0.06				E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	112	1.8				E	39.1	0.018				E							134	0.06				E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	111	1.8				E	35.3	0.018				E							121	0.06				E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	112	1.8					36.8	0.018											127	0.06				
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	1.8	1.8	U				0.018	0.018	U										0.06	0.06	U			
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	85	1.8				E	35	0.018				E							119	0.06				E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	60.7	1.8				E	44.1	0.018				E							132	0.06				E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	42.2	1.8				E	98.1	0.36				E							263	1.2				E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	73.3	1.8				E	228	0.36				E							602	1.2				E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	103	1.8				E	39.3	0.018				E							138	0.06				E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	91.9	1.8				E	45.9	0.36				E							150	1.2				E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	82.1	1.8				E	90.4	0.36				E							259	1.2				E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	79.8	1.8				E	97.1	0.36				E							274	1.2				E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	59	1.8				E	26.6	0.018				E							93.3	0.06				E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	45.8	1.8				E	15.8	0.018	P6			E							56.5	0.06				E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	37	1.8				E	11.7	0.018				E							40.8	0.06				E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	61.4	1.8				E	24.3	0.018				E							87	0.06				E
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	50.6	1.8				E	123	0.36				E							331	1.2				E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	63.9	1.8				E	140	0.36				E							380	1.2				E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	47.5	1.8				E	141	0.36				E							378	1.2				E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	43.5	1.8				E	137	0.36				E							364	1.2				E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	59.2	1.8				E	134	0.36				E							365	1.2				E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	54.4	1.8				E	143	0.36				E							383	1.2				E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	41.4	1.8				E	61.5	0.36				E							174	1.2				E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	57.6	1.8				E	268	0.36	P6			E							699	1.2				E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	58	1.8					280	0.36											731	1.2				
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	2.2	1.8	J,B				0.018	0.018	U										0.06	0.06	U			
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	83	1.8				E	106	0.36				E							294	1.2				E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	80.6	1.8				E	124	0.36				E							339	1.2				E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	83.9	1.8				E	48.5	0.36				E							147	1.2				E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	82	1.8				E	229	0.36				E							604	1.2				E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	57.1	1.8				E	19.9	0.018				E							70.1	0.06				E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	52.7	1.8				E	18.6	0.018				E							65.3	0.06				E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	42.8	1.8				E	14.9	0.018				E							51.6	0.06				E
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	46.8	1.8				E	17.7	0.018				E							61.6	0.06				E
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	55.1	1.8				E	21.2	0.018				E							74.9	0.06				E
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	41.7	1.8				E	15.4	0.018				E							54.5	0.06				E
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	46.9	1.8				E	16.6	0.018				E							57.9	0.06				E
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	107	1.8				E	42	0.018				E							147	0.06				E
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	50.6	1.8				E	19.4	0.018				E							68.5	0.06				E
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	46.5	1.8				E	15.6	0.018				E							54.7	0.06				E
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	91.2	1.8				E	34.2	0.018				E							120	0.06				E
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	110	1.8				E	42.6	0.018				E							150	0.06				E
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	59.6	1.8				E	120	0.18	P6			E							324	0.6				E
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	60.1	1.8				E	114	0.18				E							307	0.6				E
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	48.8	1.8				E	124	0.18				E							329	0.6				E
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	61.1	1.8				E	253	0.18				E							662	0.6				E
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	61.8	1.8					251	0.18											655	0.6				
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	1.8	1.8	U				0.018	0.018	U										0.066	0.06	J			
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	60.4	1.8				E	129	0.18				E							346	0.6				E
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	48.6	1.8				E	136	0.18				E							359	0.6				E
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	38	1.8				E	59	0.18				E							160	0.6				E
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	56.2	1.8				E	284	0.18				E							734	0.6				E
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	72.1	1.8				E	103	0.36				E							287	1.2				E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	84.6	1.8				E	108	0.36				E							301	1.2				E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	82.9	1.8				E	83.6	0.36				E							240	1.2				E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	71.6	1.8				E	144	0.36				E							392	1.2				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	MgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NH3-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	NO_3/NO_2-N (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	Total Phos (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	5.2	0.0034				E							0.84	0.078				E						
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	8.4	0.0034				E							1.3	0.078				E						
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	8.8	0.0034				E							1.3	0.078				E						
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	8	0.0034				E							1.3	0.078				E						
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	8.5	0.0034											1.3	0.078										
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	0.0034	0.0034	U										0.078	0.078	U									
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	7.6	0.0034				E							1.1	0.078				E						
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	5.2	0.0034				E							0.82	0.078				E						
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	4.3	0.0034				E							0.66	0.078				E						
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	7.6	0.0034				E							1.1	0.078				E						
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	9.6	0.0034				E							0.82	0.078				E						
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	8.5	0.0034				E							0.76	0.078				E						
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	8.1	0.0034				E							0.63	0.078				E						
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	7.8	0.0034				E							0.72	0.078				E						
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	6.5	0.0034				E							0.82	0.078				E						
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	4.2	0.0034				E							0.5	0.078				E						
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	2.8	0.0034				E							0.43	0.078				E						
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	6.4	0.0034				E							0.76	0.078				E						
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	5.8	0.0034				E							0.72	0.078				E						
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	7.3	0.0034				E							0.88	0.078				E						
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	6	0.0034				E							0.7	0.078				E						
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	5.3	0.0034				E							0.65	0.078				E						
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	7.3	0.0034				E							0.84	0.078				E						
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	6.4	0.0034				E							0.75	0.078				E						
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	5	0.0034				E							0.56	0.078				E						
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	7.3	0.0034				E							0.85	0.078				E						
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	7.8	0.0034											0.98	0.078										
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	0.0034	0.0034	U										0.078	0.078	U									
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	7.4	0.0034				E							0.72	0.078				E						
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	7.1	0.0034				E							0.55	0.078				E						
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	6.2	0.0034				E							0.47	0.078				E						
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	8	0.0034				E							0.98	0.078				E						
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	5	0.0034				E							0.75	0.078				E						
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	4.6	0.0034				E							0.6	0.078				E						
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	3.5	0.0034				E							0.5	0.078				E						
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	4.2	0.0034				E							0.49	0.078				E						
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	5.3	0.0034				E							0.58	0.078				E						
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	3.9	0.0034				E							0.47	0.078				E						
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	4	0.0034				E							0.53	0.078				E						
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	10.2	0.0034				E							1.4	0.078				E						
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	4.9	0.0034				E							0.51	0.078				E						
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	3.9	0.0034				E							0.54	0.078				E						
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	8.4	0.0034				E							1.1	0.078				E						
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	10.6	0.0034				E							1.2	0.078				E						
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	5.8	0.0034				E							0.81	0.078				E						
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	5.7	0.0034				E							0.66	0.078				E						
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	4.6	0.0034				E							0.57	0.078				E						
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	7	0.0034				E							0.85	0.078				E						
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	7.2	0.0034											0.86	0.078										
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	0.0073	0.0034	J,B										0.078	0.078	U									
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	5.9	0.0034				E							0.84	0.078				E						
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	4.5	0.0034				E							0.66	0.078				E						
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	3.1	0.0034				E							0.43	0.078				E						
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	6.1	0.0034				E							0.88	0.078				E						
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	7.2	0.0034				E							0.62	0.078				E						
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	7.6	0.0034				E							0.66	0.078				E						
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	7.5	0.0034				E							0.46	0.078				E						
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	7.8	0.0034				E							0.69	0.078				E						

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A3c. BPSOU 2021 Wet Weather Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	SO_4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TDS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TKN (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10575368	SS-04	SWWW0279-081821	10575368015	2021-08-18 05:08	IS4	B	27.9	1.2				E	169	5				E							28	5				E
10575368	SS-04	SWWW0280-081821	10575368016	2021-08-18 04:08	IS3	B	37.7	1.2				E	236	5				E							17.1	5				E
10575368	SS-04	SWWW0281-081821	10575368017	2021-08-18 03:08	IS2	B	37.8	1.2				E	238	5				E							5	5	U			E
10575368	SS-04	SWWW0282-081821	10575368018	2021-08-18 02:08	IS1-N	B	37.1	1.2				E	232	5				E							5	5	U			E
10575368	SS-04	SWWW0283-081821	10575368019	2021-08-18 02:08	IS1-D	B	36.7	1.2					237	5											5	5	U			
10575368	SWQC	SWWW0284-081921	10575368020	2021-08-19 13:50	FB	B	1.2	1.2	U				9	5	J										5	5	U			
10575368	SS-06A	SWWW0285-081821	10575368021	2021-08-18 05:08	IS4	B	39.6	1.2				E	202	5				E							46.8	5				E
10575368	SS-06A	SWWW0286-081821	10575368022	2021-08-18 04:08	IS3	B	70.4	2.4				E	212	5				E							62	5				E
10575368	SS-06A	SWWW0287-081821	10575368023	2021-08-18 03:08	IS2	B	206	12.1				E	385	5				E							50.4	5	D6			E
10575368	SS-06A	SWWW0288-081821	10575368024	2021-08-18 02:08	IS1	B	593	24.2				E	978	10				E							18.2	5				E
10575368	SS-07-P	SWWW0289-081821	10575368025	2021-08-18 05:41	IS4	B	62.6	2.4				E	269	5				E							19.6	5				E
10575368	SS-07-P	SWWW0290-081821	10575368026	2021-08-18 04:41	IS3	B	100	6	M1	J-	MS	S	293	5				E							31.2	5				E
10575368	SS-07-P	SWWW0291-081821	10575368027	2021-08-18 03:41	IS2	B	219	12.1		J-	MS	S	487	5				E							25.3	5				E
10575368	SS-07-P	SWWW0292-081821	10575368028	2021-08-18 02:41	IS1	B	268	12.1		J-	MS	S	550	5				E							53.6	5				E
10576060	SS-01	SWWW0293-082121	10576060001	2021-08-21 21:49	IS4	B	21.9	1.2				E	126	5				E							39.9	5				E
10576060	SS-01	SWWW0294-082121	10576060002	2021-08-21 20:49	IS3	B	16	1.2				E	96	5	D6			E							81	5	D6			E
10576060	SS-01	SWWW0295-082121	10576060003	2021-08-21 19:49	IS2	B	11.4	1.2				E	78	5				E							105	5				E
10576060	SS-01	SWWW0296-082121	10576060004	2021-08-21 18:49	IS1	B	18.3	1.2				E	133	5				E							112	5				E
10576060	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21 22:50	IS4	B	313	24.2	M1	J+	MS	S	576	5				E							61.4	5				E
10576060	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21 21:50	IS3	B	322	24.2		J+	MS	S	600	5				E							68.5	5				E
10576060	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21 20:50	IS2	B	321	24.2		J+	MS	S	581	5				E							64	5				E
10576060	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21 19:50	IS1	B	344	24.2		J+	MS	S	603	5				E							95.5	5				E
10576060	SS-06G	SWWW0301-082121	10576060009	2021-08-21 22:50	IS4	B	313	24.2		J+	MS	S	575	5				E							70.4	5				E
10576060	SS-06G	SWWW0302-082121	10576060010	2021-08-21 21:50	IS3	B	324	24.2		J+	MS	S	598	5				E							86	5				E
10576060	SS-06G	SWWW0303-082121	10576060011	2021-08-21 20:50	IS2	B	168	12.1		J+	MS	S	309	5				E							78.2	5				E
10576060	SS-06G	SWWW0304-082121	10576060012	2021-08-21 19:50	IS1-N	B	651	24.2		J+	MS	S	1150	5				E							79.4	5				E
10576060	SS-06G	SWWW0305-082121	10576060013	2021-08-21 19:50	IS1-D	B	687	24.2		J+	MS		1140	5											81	5				
10576060	SWQC	SWWW0306-082421	10576060014	2021-08-24 13:33	FB	B	1.2	1.2	U				5	5	U										5	5	U			
10576060	SS-07	SWWW0307-082121	10576060015	2021-08-21 22:45	IS4	B	234	24.2		J+	MS	S	502	5				E							54.7	5				E
10576060	SS-07	SWWW0308-082121	10576060016	2021-08-21 21:45	IS3	B	284	24.2		J+	MS	S	572	5				E							73.3	5				E
10576060	SS-07	SWWW0309-082121	10576060017	2021-08-21 20:45	IS2	B	140	12.1		J+	MS	S	339	5				E							46.7	5				E
10576060	SS-07	SWWW0310-082121	10576060018	2021-08-21 19:45	IS1	B	549	24.2		J+	MS	S	1020	5				E							50	5				E
10576060	SS-01-P	SWWW0311-082121	10576060019	2021-08-21 21:49	IS4	B	18.9	1.2				E	117	5				E							5	5	U			E
10576060	SS-01-P	SWWW0312-082121	10576060020	2021-08-21 20:49	IS3	B	16.6	1.2				E	105	5				E							61.5	5				E
10576060	SS-01-P	SWWW0313-082121	10576060021	2021-08-21 19:49	IS2	B	12	1.2				E	87	5	D6			E							68.6	5	D6	J	RPD	S
10576060	SS-01-P	SWWW0314-082121	10576060022	2021-08-21 18:49	IS1	B	12.3	1.2				E	100	5				E							131	5		J	RPD	S
10576060	SS-01.35	SWWW0315-082121	10576060023	2021-08-21 23:02	IS4	B	20.8	1.2				E	123	5				E							17.7	5		J	RPD	S
10576060	SS-01.35	SWWW0316-082121	10576060024	2021-08-21 22:02	IS3	B	14.8	1.2				E	96	5				E							27.6	5		J	RPD	S
10576060	SS-01.35	SWWW0317-082121	10576060025	2021-08-21 21:02	IS2	B	15.5	1.2				E	115	5				E							36.7	5		J	RPD	S
10576060	SS-01.35	SWWW0318-082121	10576060026	2021-08-21 20:02	IS1	B	35.3	2.4				E	217	5				E							40.6	5		J	RPD	S
10576060	SS-04	SWWW0319-082121	10576060027	2021-08-21 23:23	IS4	B	18.7	1.2				E	118	5				E							18.2	5		J	RPD	S
10576060	SS-04	SWWW0320-082121	10576060028	2021-08-21 22:23	IS3	B	16.4	1.2				E	105	5				E							26.9	5		J	RPD	S
10576060	SS-04	SWWW0321-082121	10576060029	2021-08-21 21:23	IS2	B	29.3	1.2				E	194	5				E							37	5		J	RPD	S
10576060	SS-04	SWWW0322-082121	10576060030	2021-08-21 20:23	IS1	B	36.8	2.4				E	210	5				E							5	5	U	UJ	RPD	S
10576060	SS-05	SWWW0323-082121	10576060031	2021-08-21 21:49	IS4	B	266	24.2				E	514	5				E							42.9	5		J	RPD	S
10576060	SS-05	SWWW0324-082121	10576060032	2021-08-21 20:49	IS3	B	236	24.2				E	470	5				E							46.8	5		J	RPD	S
10576060	SS-05	SWWW0325-082121	10576060033	2021-08-21 19:49	IS2	B	205	12.1				E	344	5				E							62.7	5		J	RPD	S
10576060	SS-05	SWWW0326-082121	10576060034	2021-08-21 18:49	IS1-N	B	649	24.2				E	1100	5				E							24.8	5		J	RPD	S
10576060	SS-05	SWWW0327-082121	10576060035	2021-08-21 18:49	IS1-D	B	642	24.2					1140	5											33.2	5		J	RPD	
10576060	SWQC	SWWW0328-082421	10576060036	2021-08-24 13:25	FB	B	1.2	1.2	U				5	5	U										5	5	U			
10576060	SS-06A	SWWW0329-082121	10576060037	2021-08-21 22:16	IS4	B	291	24.2				E	576	5				E							60.8	5		J	RPD	S
10576060	SS-06A	SWWW0330-082121	10576060038	2021-08-21 21:16	IS3	B	368	24.2				E	635	5				E							63.5	5		J	RPD	S
10576060	SS-06A	SWWW0331-082121	10576060039	2021-08-21 20:16	IS2	B	181	12.1				E	317	5				E							101	5		J	RPD	S
10576060	SS-06A	SWWW0332-082121	10576060040	2021-08-21 19:16	IS1	B	723	24.2				E	1230	5				E							43.3	5		J	RPD	S
10576060	SS-07-P	SWWW0333-082121	10576060041	2021-08-21 22:45	IS4	B	261	24.2				E	514	5				E							44.4	5				E
10576060	SS-07-P	SWWW0334-082121	10576060042	2021-08-21 21:45	IS3	B	264	24.2				E	533	5				E							66.1	5				E
10576060	SS-07-P	SWWW0335-082121	10576060043	2021-08-21 20:45	IS2	B	206	12.1				E	427	5				E							43.4	5				E
10576060	SS-07-P	SWWW0336-082121	10576060044	2021-08-21 19:45	IS1	B	347	24.2				E	676	5				E							70.7	5				E

See Table A4 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table A4. Definitions of Data Flags, Data Qualifiers and Status Assessments

	Laboratory Flags[a]
1M	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
AB	Analyte was detected in an associated instrument blank.
AD	Analyte was detected in the method blank at a concentration greater than 2.2 times the MDL.
AL	The lab does not hold A2LA accreditation for this parameter.
B	Analyte was detected in the associated method blank.
B0	Analyte was detected in an associated blank at a concentration greater than the MDL.
BC	The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.
BH	Analyte was detected in an instrument blank. The result may be biased high.
BL	Analyte was detected in an instrument blank at a negative value. The result may be biased low.
C0	Result confirmed by second analysis.
C1	Result could not be confirmed by second analysis.
C7	Analyte is a possible laboratory contaminant (not present in method blank).
C8	Result may be biased high due to carryover from previously analyzed sample.
C9	Common Laboratory Contaminant.
CC	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The result may be biased.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
CR	The dissolved metal result was greater than the total metal result for this element. Results were confirmed by reanalysis.
CU	The continuing calibration for this analyte is above Pace Analytical acceptance limits. Analyte was not detected above the reporting limit in any of the associated samples.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D4	Sample was diluted due to the presence of high levels of target analytes.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
D7	The sample and/or duplicate results for this parameter are less than the reporting limit, calculations are based on estimated values and may be statistically unreliable
D8	The sample and duplicate results for this parameter are less than 5 times the reporting limit, the RPD may not be statistically valid.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
F5	The recovery of the analyte in the CRDL standard (also known as the reporting limit verification) did not meet the acceptance criteria.
FS	The sample was filtered in the laboratory prior to analysis.
H1	Analysis conducted outside the recognized method holding time.
H2	Extraction or preparation was conducted outside of the recognized method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H4	Sample re-extracted and analyzed outside of EPA method holding time.
H5	Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
H7	Re-extraction or re-analysis could not be performed within method holding time.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
IO	The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.
IR	The internal standard recovery associated with this result exceeds the upper control limit. The reported result should be considered an estimated value.
IS	The internal standard response is below criteria. Results may be biased high.
IU	The internal standard recoveries associated with this sample exceed the upper control limit. The reported results should be considered estimated values.
J	Analyte detected below reporting limit, therefore result is an estimate
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
L5	LCS recovery exceeded QC limits. Batch accepted based on matrix spike recovery within LCS limits.
LS	Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M2	Matrix spike recovery was below QC limits due to sample dilution. Data acceptance based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
M4	A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
MA	Result determined by method of standard addition.
MD	The analyte was not detected at or above the Method Detection Limit.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
N	Tentatively identified compound (TIC) based on mass spectral library search
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
P7	This spike was performed as a post digestion spike.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.
PI	The precision between the sample and the duplicate sample exceeded laboratory control limits.
R1	RPD value was outside control limits.
R2	RPD value was outside control limits due to matrix interference
R3	RPD value was outside control limits due to uncertainty of values at or near the PRL.
RS	The RPD value in one of the constituent analytes was outside the control limits.

Table A4. Definitions of Data Flags, Data Qualifiers and Status Assessments

SD	The serial dilution and the original analysis did not agree within ±10%. The concentration is estimated due to a suspected chemical or physical interference.
TP	The samples were received outside of required temperature range. Analysis was completed upon client approval.
TV	Analysis conducted outside EPA method holding time. Results may be biased low.
TW	Dissolved result is greater than the total. Data is within laboratory control limits, however the RPD between the total and dissolved result is >20%.
W	Non-detect results are reported on a wet weight basis.
Z2	Analyte present in the associated method blank above the detection limit.
REV_X	Revision X - This report replaces the Month, DD, YYYY report. This project was revised on Month, DD, YYYY <REASON>. (Lab city, State)
SubCert	This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed.
TO	Samples requiring thermal preservation were received outside of recommended temperature limits of 0-6 degrees Celsius.
TP	Samples were received outside of required temperature range. Analysis was completed upon client approval.
TQ	Samples were received outside of required temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.
C0	Results confirmed by second analysis.
IQ	The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.
IU	The internal standard recoveries associated with this sample exceed the upper control limit. The reported results should be considered estimated values.
sb	Client sample ID on container did not match COC; client was notified.
sd	date - Added 3ml HNO3 to Metals bottle prior to analysis. pH <2.
se	Sample collection dates and times were not present on the sample containers.
sf	Sample collection dates and times were not listed on the COC.
sg	Sample collection time on containers does not match COC; client was notified.
sh	The sampler's name and signature were not listed on the COC.
sl	Sample was received outside the recognized method holding time; client notified and approved.
sm	A Chain of Custody was not received with samples; client was contacted.
	Data Validation Qualifiers[b]
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
	Data Validation Descriptors[c]
AB	Did not meet level A/B criteria
CC	Correlation coefficient less than 0.995 for instrument calibration
CCV	Continuing calibration verification outside limits
CCB	Continuing calibration blank contamination
COM	Not comparable to historical data
CQ	No calibration performed
CRQL	Contract required quantitation limit standard recovery outside quality control limits
DNR	Do not report. An alternate, acceptable result is available.
ECR	Reported concentration exceeds instrument calibration range
FB	Field blank contamination
FD	Field duplicate RPD outside limits
HT	Holding time exceeded
ICB	Initial calibration blank contamination
ICS	Interference check standard recovery outside limits
ICV	Initial calibration verification outside limits
IP	Incorrect sample preservation
IS	Internal standard recovery outside limits
LCS	Lab control spike recovery is outside quality control limits
MB	Method blank contamination
MI	Matrix interference with analyte quantitation
MDL	Non-detect at MDL value
MS	Matrix spike recovery is outside quality control limits
RB	Equipment rinse blank contamination
RL	Laboratory detected result below reporting limit
RPD	Duplicate sample relative percent difference exceeds QC limits
SD	ICP serial dilution percent difference outside QC limits
SIC	Sample integrity compromised
SUR	Surrogate recovery is outside QC limits
TB	Trip blank contamination
TIC	Compound was tentatively identified by GC/MS search
	CFRSSI Status[d]
E	Enforcement quality data are data with unrestricted use, meet Level A/B criteria, and are NOT qualified during the data validation process
S	Screening quality data are data whose associated values are estimated or meet only Level A criteria
R	Unusable data are data whose associated numerical values are so questionable it is recommended that they not be used
	Level A/B Screening Results[d]
A	Meets only Level A Screening criteria, but does not meet Level B Screening criteria, including proper techniques
B	Meets both Level A and Level B criteria, including field replicates and proper documentation

[a] Assigned by Pace Analytical Services, Inc.

[b] Adapted from US EPA 2017. Laboratory Data Validation National Functional Guidelines for Inorganic Data Review; EPA, January, 2017)

[c] Assigned by TREC, Inc. during data validation

[d] Defined in Clark Fork River Superfund Site Investigations Data Management/Data Validation Plan; ARCO, May 1992)

Table A5a. BPSOU 2021 Normal Flow Data Quality Assessment - Field Duplicates

Location	Sample Date	Natural Field ID	Natural Lab ID	Nat Sample Type	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate FieldID	Duplicate LabID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	AgDis	mg/L	0.000077	0.000077	0.0005	SWBF0003-012121	10545858003	0.000077	0.000077	0.0005	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	AgTR	mg/L	0.000077	0.000077	0.0005	SWBF0003-012121	10545858003	0.000077	0.000077	0.0005	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	AlDis	mg/L	0.021	0.0071	0.02	SWBF0003-012121	10545858003	0.028	0.0071	0.02	28.57	0.007
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	ALK_CaCO3	mg/L	69.5	2	5	SWBF0003-012121	10545858003	70.3	2	5	1.14	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	AlTR	mg/L	0.081	0.0071	0.02	SWBF0003-012121	10545858003	0.078	0.0071	0.02	3.77	0.003
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	AsDis	mg/L	0.0023	0.00014	0.0005	SWBF0003-012121	10545858003	0.0023	0.00014	0.0005	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	AsTR	mg/L	0.0029	0.00014	0.0005	SWBF0003-012121	10545858003	0.0028	0.00014	0.0005	3.51	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	CaDis	mg/L	265	0.15	0.4	SWBF0003-012121	10545858003	272	0.15	0.4	2.61	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	CdDis	mg/L	0.000081	0.00003	0.00008	SWBF0003-012121	10545858003	0.000082	0.00003	0.00008	1.23	0.000001
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	CdTR	mg/L	0.000087	0.00003	0.00008	SWBF0003-012121	10545858003	0.000055	0.00003	0.00008	45.07	0.000032
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	CuDis	mg/L	0.0024	0.00043	0.001	SWBF0003-012121	10545858003	0.0035	0.00043	0.001	37.29	0.0011
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	CuTR	mg/L	0.0063	0.00043	0.001	SWBF0003-012121	10545858003	0.0066	0.00043	0.001	4.65	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	DOC	mg/L	1.6	0.3	1	SWBF0003-012121	10545858003	1.6	0.3	1	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	FeDis	mg/L	0.012	0.012	0.05	SWBF0003-012121	10545858003	0.012	0.012	0.05	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	FeTR	mg/L	0.2	0.012	0.05	SWBF0003-012121	10545858003	0.18	0.012	0.05	10.53	0.02
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	Hard	mg/L	712	0.54	1.4	SWBF0003-012121	10545858003	732	0.54	1.4	2.77	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	HgDis	mg/L	0.0000045	0.0000045	0.00001	SWBF0003-012121	10545858003	0.0000045	0.0000045	0.00001	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	HgTR	mg/L	0.0000045	0.0000045	0.00001	SWBF0003-012121	10545858003	0.0000045	0.0000045	0.00001	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	MgDis	mg/L	12.5	0.0039	0.01	SWBF0003-012121	10545858003	12.9	0.0039	0.01	3.15	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	MoDis	mg/L	0.48	0.000081	0.0005	SWBF0003-012121	10545858003	0.49	0.000081	0.0005	2.06	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	MoTR	mg/L	0.46	0.0016	0.01	SWBF0003-012121	10545858003	0.46	0.0016	0.01	0	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	NH3-N	mg/L	0.074	0.025	0.1	SWBF0003-012121	10545858003	0.035	0.025	0.1	71.56	0.039
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	NO3/NO2-N	mg/L	1.4	0.078	0.2	SWBF0003-012121	10545858003	1.4	0.078	0.2	0	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	P	mg/L	0.056	0.028	0.1	SWBF0003-012121	10545858003	0.048	0.028	0.1	15.38	0.008
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	PbDis	mg/L	0.000043	0.000043	0.0001	SWBF0003-012121	10545858003	0.000043	0.000043	0.0001	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	PbTR	mg/L	0.00077	0.000043	0.0001	SWBF0003-012121	10545858003	0.00075	0.000043	0.0001	2.63	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	SO4	mg/L	672	24.2	50	SWBF0003-012121	10545858003	631	19.4	40	6.29	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	TDS	mg/L	385	25	50	SWBF0003-012121	10545858003	1200	25	50	102.84	
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	TKN	mg/L	0.48	0.48	0.5	SWBF0003-012121	10545858003	0.48	0.48	0.5	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	TSS	mg/L	5	5	10	SWBF0003-012121	10545858003	5	5	10	0	0
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	ZnDis	mg/L	0.017	0.0023	0.005	SWBF0003-012121	10545858003	0.018	0.0023	0.005	5.71	0.001
SS-06G	2021-01-21	SWBF0002-012121	10545858002	FG-N	10545858	ZnTR	mg/L	0.024	0.0023	0.005	SWBF0003-012121	10545858003	0.024	0.0023	0.005	0	0
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	AgDis	mg/L	0.000077	0.000077	0.0005	SWBF0013-022221	10550036003	0.000077	0.000077	0.0005	0	0
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	AgTR	mg/L	0.000077	0.000077	0.0005	SWBF0013-022221	10550036003	0.000077	0.000077	0.0005	0	0
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	AlDis	mg/L	0.032	0.0071	0.02	SWBF0013-022221	10550036003	0.034	0.0071	0.02	6.06	0.002
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	ALK_CaCO3	mg/L	64.6	2	5	SWBF0013-022221	10550036003	64.8	2	5	0.31	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	AlTR	mg/L	0.13	0.0071	0.02	SWBF0013-022221	10550036003	0.14	0.0071	0.02	7.41	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	AsDis	mg/L	0.0022	0.00014	0.0005	SWBF0013-022221	10550036003	0.0023	0.00014	0.0005	4.44	0.0001
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	AsTR	mg/L	0.003	0.00014	0.0005	SWBF0013-022221	10550036003	0.0031	0.00014	0.0005	3.28	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	CaDis	mg/L	299	0.3	0.8	SWBF0013-022221	10550036003	327	0.3	0.8	8.95	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	CdDis	mg/L	0.00014	0.00003	0.00008	SWBF0013-022221	10550036003	0.000096	0.00003	0.00008	37.29	0.000044
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	CdTR	mg/L	0.00014	0.00003	0.00008	SWBF0013-022221	10550036003	0.00014	0.00003	0.00008	0	0
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	CuDis	mg/L	0.0018	0.00043	0.001	SWBF0013-022221	10550036003	0.0019	0.00043	0.001	5.41	0.0001
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	CuTR	mg/L	0.0082	0.00043	0.001	SWBF0013-022221	10550036003	0.0084	0.00043	0.001	2.41	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	DOC	µg/L	1680	106	1000	SWBF0013-022221	10550036003	1530	106	1000	9.35	150
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	FeDis	mg/L	0.017	0.012	0.05	SWBF0013-022221	10550036003	0.018	0.012	0.05	5.71	0.001
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	FeTR	mg/L	0.24	0.012	0.05	SWBF0013-022221	10550036003	0.23	0.012	0.05	4.26	0.01
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	Hard	mg/L	799	1.1	2.8	SWBF0013-022221	10550036003	872	1.1	2.8	8.74	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	HgDis	mg/L	0.000012	0.0000045	0.00001	SWBF0013-022221	10550036003	0.000005	0.0000045	0.00001	82.35	0.000007
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	HgTR	mg/L	0.000011	0.0000045	0.00001	SWBF0013-022221	10550036003	0.000011	0.0000045	0.00001	0	0
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	MgDis	mg/L	12.7	0.0039	0.01	SWBF0013-022221	10550036003	13.3	0.0039	0.01	4.62	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	MoDis	mg/L	0.5	0.0016	0.01	SWBF0013-022221	10550036003	0.57	0.0016	0.01	13.08	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	MoTR	mg/L	0.53	0.0016	0.01	SWBF0013-022221	10550036003	0.52	0.0016	0.01	1.9	

Highlighted cells indicate field precision outside of criteria

Table A5a. BPSOU 2021 Normal Flow Data Quality Assessment - Field Duplicates

Location	Sample Date	Natural Field ID	Natural Lab ID	Nat Sample Type	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate FieldID	Duplicate LabID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	NH3-N	mg/L	0.06	0.025	0.1	SWBF0013-022221	10550036003	0.032	0.025	0.1	60.87	0.028
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	NO3/NO2-N	mg/L	1.2	0.078	0.2	SWBF0013-022221	10550036003	1.2	0.078	0.2	0	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	P	mg/L	0.072	0.028	0.1	SWBF0013-022221	10550036003	0.059	0.028	0.1	19.85	0.013
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	PbDis	mg/L	0.000043	0.000043	0.0001	SWBF0013-022221	10550036003	0.000043	0.000043	0.0001	0	0
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	PbTR	mg/L	0.0017	0.000043	0.0001	SWBF0013-022221	10550036003	0.0013	0.000043	0.0001	26.67	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	SO4	mg/L	755	24.2	50	SWBF0013-022221	10550036003	792	24.2	50	4.78	
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	TKN	mg/L	0.48	0.48	0.5	SWBF0013-022221	10550036003	0.48	0.48	0.5	0	0
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	ZnDis	mg/L	0.017	0.0023	0.005	SWBF0013-022221	10550036003	0.018	0.0023	0.005	5.71	0.001
SS-06G	2021-02-22	SWBF0012-022221	10550036002	FG-N	10550036	ZnTR	mg/L	0.028	0.0023	0.005	SWBF0013-022221	10550036003	0.026	0.0023	0.005	7.41	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	AgDis	mg/L	0.000077	0.000077	0.0005	SWBF0029-031621	10551370009	0.000077	0.000077	0.0005	0	0
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	AgTR	mg/L	0.000077	0.000077	0.0005	SWBF0029-031621	10551370009	0.000077	0.000077	0.0005	0	0
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	AlDis	mg/L	0.0071	0.0071	0.02	SWBF0029-031621	10551370009	0.0071	0.0071	0.02	0	0
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	ALK_CaCO3	mg/L	88.1	2	5	SWBF0029-031621	10551370009	86.9	2	5	1.37	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	AlTR	mg/L	0.071	0.0071	0.02	SWBF0029-031621	10551370009	0.06	0.0071	0.02	16.79	0.011
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	AsDis	mg/L	0.0031	0.00014	0.0005	SWBF0029-031621	10551370009	0.0032	0.00014	0.0005	3.17	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	AsTR	mg/L	0.0037	0.00014	0.0005	SWBF0029-031621	10551370009	0.0037	0.00014	0.0005	0	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	CaDis	mg/L	32.4	0.3	0.8	SWBF0029-031621	10551370009	32.7	0.3	0.8	0.92	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	CdDis	mg/L	0.00003	0.00003	0.00008	SWBF0029-031621	10551370009	0.00003	0.00003	0.00008	0	0
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	CdTR	mg/L	0.00003	0.00003	0.00008	SWBF0029-031621	10551370009	0.000045	0.00003	0.00008	40	0.000015
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	CuDis	mg/L	0.0027	0.00043	0.001	SWBF0029-031621	10551370009	0.0028	0.00043	0.001	3.64	0.0001
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	CuTR	mg/L	0.0038	0.00043	0.001	SWBF0029-031621	10551370009	0.0036	0.00043	0.001	5.41	0.0002
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	DOC	mg/L	5	0.3	1	SWBF0029-031621	10551370009	4.8	0.3	1	4.08	0.2
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	FeDis	mg/L	0.18	0.012	0.05	SWBF0029-031621	10551370009	0.18	0.012	0.05	0	0
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	FeTR	mg/L	0.38	0.012	0.05	SWBF0029-031621	10551370009	0.36	0.012	0.05	5.41	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	Hard	mg/L	113	1.1	2.8	SWBF0029-031621	10551370009	115	1.1	2.8	1.75	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	HgDis	mg/L	0.0000045	0.0000045	0.00001	SWBF0029-031621	10551370009	0.000006	0.0000045	0.00001	28.57	0.0000015
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	HgTR	mg/L	0.00013	0.0000045	0.00001	SWBF0029-031621	10551370009	0.0000045	0.0000045	0.00001	186.62	0.0001255
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	MgDis	mg/L	7.7	0.0039	0.01	SWBF0029-031621	10551370009	8	0.0039	0.01	3.82	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	MoDis	mg/L	0.0044	0.000081	0.0005	SWBF0029-031621	10551370009	0.0047	0.000081	0.0005	6.59	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	MoTR	mg/L	0.005	0.000081	0.0005	SWBF0029-031621	10551370009	0.0049	0.000081	0.0005	2.02	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	NH3-N	mg/L	0.03	0.03	0.1	SWBF0029-031621	10551370009	0.03	0.03	0.1	0	0
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	NO3/NO2-N	mg/L	1	0.078	0.2	SWBF0029-031621	10551370009	1.1	0.078	0.2	9.52	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	P	mg/L	0.15	0.028	0.1	SWBF0029-031621	10551370009	0.14	0.028	0.1	6.9	0.01
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	PbDis	mg/L	0.000091	0.000043	0.0001	SWBF0029-031621	10551370009	0.000087	0.000043	0.0001	4.49	0.000004
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	PbTR	mg/L	0.0003	0.000043	0.0001	SWBF0029-031621	10551370009	0.00028	0.000043	0.0001	6.9	0.00002
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	SO4	mg/L	36.5	1.2	2.5	SWBF0029-031621	10551370009	36.4	1.2	2.5	0.27	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	TDS	mg/L	186	5	10	SWBF0029-031621	10551370009	186	5	10	0	
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	TKN	mg/L	0.77	0.48	0.5	SWBF0029-031621	10551370009	0.48	0.48	0.5	46.4	0.29
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	TSS	mg/L	5	5	10	SWBF0029-031621	10551370009	5	5	10	0	0
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	ZnDis	mg/L	0.0034	0.0023	0.005	SWBF0029-031621	10551370009	0.0036	0.0023	0.005	5.71	0.0002
SS-01	2021-03-16	SWBF0028-031621	10551370008	FG-N	10551370	ZnTR	mg/L	0.0051	0.0023	0.005	SWBF0029-031621	10551370009	0.0046	0.0023	0.005	10.31	0.0005
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	AgDis	mg/L	0.000077	0.000077	0.0005	SWBF0033-041321	10555588003	0.000077	0.000077	0.0005	0	0
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	AgTR	mg/L	0.000077	0.000077	0.0005	SWBF0033-041321	10555588003	0.000077	0.000077	0.0005	0	0
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	AlDis	mg/L	0.011	0.0071	0.02	SWBF0033-041321	10555588003	0.012	0.0071	0.02	8.7	0.001
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	ALK_CaCO3	mg/L	68.8	2	5	SWBF0033-041321	10555588003	67.5	2	5	1.91	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	AlTR	mg/L	0.12	0.0071	0.02	SWBF0033-041321	10555588003	0.13	0.0071	0.02	8	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	AsDis	mg/L	0.0025	0.00014	0.0005	SWBF0033-041321	10555588003	0.0026	0.00014	0.0005	3.92	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	AsTR	mg/L	0.0032	0.00014	0.0005	SWBF0033-041321	10555588003	0.0035	0.00014	0.0005	8.96	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	CaDis	mg/L	309	0.15	0.4	SWBF0033-041321	10555588003	322	0.15	0.4	4.12	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	CdDis	mg/L	0.000094	0.00003	0.00008	SWBF0033-041321	10555588003	0.000085	0.00003	0.00008	10.06	0.00001
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	CdTR	mg/L	0.0001	0.00003	0.00008	SWBF0033-041321	10555588003	0.0001	0.00003	0.00008	0	0
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	CuDis	mg/L	0.0026	0.00043	0.001	SWBF0033-041321	10555588003	0.0027	0.00043	0.001	3.77	0.0001
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	CuTR	mg/L	0.0064	0.00043	0.001	SWBF0033-041321	10555588003	0.0082	0.00043	0.001	24.66	

Highlighted cells indicate field precision outside of criteria

Table A5a. BPSOU 2021 Normal Flow Data Quality Assessment - Field Duplicates

Location	Sample Date	Natural Field ID	Natural Lab ID	Nat Sample Type	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate FieldID	Duplicate LabID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	DOC	mg/L	2.2	0.3	1	SWBF0033-041321	10555588003	2.1	0.3	1	4.65	0.1
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	FeDis	mg/L	0.023	0.012	0.05	SWBF0033-041321	10555588003	0.019	0.012	0.05	19.05	0.004
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	FeTR	mg/L	0.33	0.012	0.05	SWBF0033-041321	10555588003	0.37	0.012	0.05	11.43	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	Hard	mg/L	818	0.54	1.4	SWBF0033-041321	10555588003	854	0.54	1.4	4.31	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	HgDis	mg/L	0.0000045	0.0000045	0.00001	SWBF0033-041321	10555588003	0.0000045	0.0000045	0.00001	0	0
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	HgTR	mg/L	0.0000045	0.0000045	0.00001	SWBF0033-041321	10555588003	0.000024	0.0000045	0.00001	136.84	0.0000195
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	MgDis	mg/L	11.3	0.0039	0.01	SWBF0033-041321	10555588003	12.1	0.0039	0.01	6.84	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	MoDis	mg/L	0.53	0.000081	0.0005	SWBF0033-041321	10555588003	0.57	0.000081	0.0005	7.27	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	MoTR	mg/L	0.55	0.000081	0.0005	SWBF0033-041321	10555588003	0.58	0.000081	0.0005	5.31	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	NH3-N	mg/L	0.077	0.03	0.1	SWBF0033-041321	10555588003	0.033	0.03	0.1	80	0.044
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	NO3/NO2-N	mg/L	1.1	0.078	0.2	SWBF0033-041321	10555588003	1.1	0.078	0.2	0	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	P	mg/L	0.05	0.05	0.1	SWBF0033-041321	10555588003	0.05	0.05	0.1	0	0
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	PbDis	mg/L	0.000043	0.000043	0.0001	SWBF0033-041321	10555588003	0.000043	0.000043	0.0001	0	0
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	PbTR	mg/L	0.00085	0.000043	0.0001	SWBF0033-041321	10555588003	0.0011	0.000043	0.0001	25.64	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	SO4	mg/L	778	30.2	62.5	SWBF0033-041321	10555588003	762	30.2	62.5	2.08	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	TDS	mg/L	1400	25	50	SWBF0033-041321	10555588003	1440	25	50	2.82	
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	TKN	mg/L	3.5	0.48	0.5	SWBF0033-041321	10555588003	0.48	0.48	0.5	151.76	3.02
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	TSS	mg/L	5	5	10	SWBF0033-041321	10555588003	5	5	10	0	0
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	ZnDis	mg/L	0.013	0.0023	0.005	SWBF0033-041321	10555588003	0.014	0.0023	0.005	7.41	0.001
SS-06G	2021-04-13	SWBF0032-041321	10555588002	FG-N	10555588	ZnTR	mg/L	0.019	0.0023	0.005	SWBF0033-041321	10555588003	0.02	0.0023	0.005	5.13	0.001
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	AgDis	mg/L	0.000077	0.000077	0.0005	SWBF0043-051921	10561813003	0.000077	0.000077	0.0005	0	0
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	AgTR	mg/L	0.000077	0.000077	0.0005	SWBF0043-051921	10561813003	0.00008	0.000077	0.0005	3.82	0.000003
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	AlDis	mg/L	0.027	0.0071	0.02	SWBF0043-051921	10561813003	0.017	0.0071	0.02	45.45	0.01
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	ALK_CaCO3	mg/L	67.4	2	5	SWBF0043-051921	10561813003	67.1	2	5	0.45	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	AlTR	mg/L	0.064	0.0071	0.02	SWBF0043-051921	10561813003	0.063	0.0071	0.02	1.57	0.001
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	AsDis	mg/L	0.0029	0.00014	0.0005	SWBF0043-051921	10561813003	0.0028	0.00014	0.0005	3.51	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	AsTR	mg/L	0.0039	0.00014	0.0005	SWBF0043-051921	10561813003	0.0039	0.00014	0.0005	0	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	CaDis	mg/L	319	0.76	2	SWBF0043-051921	10561813003	310	0.76	2	2.86	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	CdDis	mg/L	0.00012	0.00003	0.00008	SWBF0043-051921	10561813003	0.000051	0.00003	0.00008	80.7	0.000069
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	CdTR	mg/L	0.0001	0.00003	0.00008	SWBF0043-051921	10561813003	0.00009	0.00003	0.00008	10.53	0.00001
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	CuDis	mg/L	0.0024	0.00043	0.001	SWBF0043-051921	10561813003	0.0025	0.00043	0.001	4.08	0.0001
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	CuTR	mg/L	0.0056	0.00043	0.001	SWBF0043-051921	10561813003	0.0059	0.00043	0.001	5.22	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	DOC	mg/L	2.2	0.3	1	SWBF0043-051921	10561813003	2.5	0.3	1	12.77	0.3
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	FeDis	mg/L	0.02	0.012	0.05	SWBF0043-051921	10561813003	0.029	0.012	0.05	36.73	0.009
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	FeTR	mg/L	0.2	0.012	0.05	SWBF0043-051921	10561813003	0.2	0.012	0.05	0	0
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	Hard	mg/L	839	2.7	7	SWBF0043-051921	10561813003	817	2.7	7	2.66	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	HgDis	mg/L	0.0000047	0.0000047	0.00001	SWBF0043-051921	10561813003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	HgTR	mg/L	0.0000047	0.0000047	0.00001	SWBF0043-051921	10561813003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	MgDis	mg/L	10.2	0.0039	0.01	SWBF0043-051921	10561813003	10	0.0039	0.01	1.98	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	MoDis	mg/L	0.52	0.00081	0.005	SWBF0043-051921	10561813003	0.49	0.00081	0.005	5.94	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	MoTR	mg/L	0.47	0.0016	0.01	SWBF0043-051921	10561813003	0.49	0.0016	0.01	4.17	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	NH3-N	mg/L	0.03	0.03	0.1	SWBF0043-051921	10561813003	0.03	0.03	0.1	0	0
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	NO3/NO2-N	mg/L	0.9	0.078	0.2	SWBF0043-051921	10561813003	0.99	0.078	0.2	9.52	0.09
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	P	mg/L	0.05	0.05	0.1	SWBF0043-051921	10561813003	0.05	0.05	0.1	0	0
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	PbDis	mg/L	0.000043	0.000043	0.0001	SWBF0043-051921	10561813003	0.000047	0.000043	0.0001	8.89	0.000004
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	PbTR	mg/L	0.00055	0.000043	0.0001	SWBF0043-051921	10561813003	0.00057	0.000043	0.0001	3.57	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	SO4	mg/L	987	30.2	62.5	SWBF0043-051921	10561813003	964	30.2	62.5	2.36	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	TDS	mg/L	1280	25	50	SWBF0043-051921	10561813003	1260	25	50	1.57	
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	TKN	mg/L	0.7	0.48	0.5	SWBF0043-051921	10561813003	1	0.48	0.5	35.29	0.3
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	TSS	mg/L	5	5	10	SWBF0043-051921	10561813003	5	5	10	0	0
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	ZnDis	mg/L	0.012	0.0023	0.005	SWBF0043-051921	10561813003	0.012	0.0023	0.005	0	0
SS-06G	2021-05-19	SWBF0042-051921	10561813002	FG-N	10561813	ZnTR	mg/L	0.016	0.0023	0.005	SWBF0043-051921	10561813003	0.017	0.0023	0.005	6.06	0.001
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	AgDis	mg/L	0.000077	0.000077	0.0005	SWBF0057-060921	10564925003	0.000077	0.000077	0.0005	0	0

Highlighted cells indicate field precision outside of criteria

Table A5a. BPSOU 2021 Normal Flow Data Quality Assessment - Field Duplicates

Location	Sample Date	Natural Field ID	Natural Lab ID	Nat Sample Type	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate FieldID	Duplicate LabID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	AgTR	mg/L	0.000077	0.000077	0.0005	SWBF0057-060921	10564925003	0.000077	0.000077	0.0005	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	AlDis	mg/L	0.0071	0.0071	0.02	SWBF0057-060921	10564925003	0.0071	0.0071	0.02	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	ALK_CaCO3	mg/L	93.7	1.8	5	SWBF0057-060921	10564925003	94.8	1.8	5	1.17	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	AlTR	mg/L	0.031	0.0071	0.02	SWBF0057-060921	10564925003	0.031	0.0071	0.02	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	AsDis	mg/L	0.0024	0.00014	0.0005	SWBF0057-060921	10564925003	0.0024	0.00014	0.0005	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	AsTR	mg/L	0.0027	0.00014	0.0005	SWBF0057-060921	10564925003	0.0029	0.00014	0.0005	7.14	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	CaDis	mg/L	34.1	0.015	0.04	SWBF0057-060921	10564925003	34.3	0.015	0.04	0.58	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	CdDis	mg/L	0.00003	0.00003	0.00008	SWBF0057-060921	10564925003	0.00003	0.00003	0.00008	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	CdTR	mg/L	0.00003	0.00003	0.00008	SWBF0057-060921	10564925003	0.00003	0.00003	0.00008	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	CuDis	mg/L	0.0029	0.00043	0.001	SWBF0057-060921	10564925003	0.0028	0.00043	0.001	3.51	0.0001
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	CuTR	mg/L	0.0044	0.00043	0.001	SWBF0057-060921	10564925003	0.0044	0.00043	0.001	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	DOC	mg/L	2.4	0.3	1	SWBF0057-060921	10564925003	2.2	0.3	1	8.7	0.2
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	FeDis	mg/L	0.068	0.012	0.05	SWBF0057-060921	10564925003	0.07	0.012	0.05	2.9	0.002
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	FeTR	mg/L	0.24	0.012	0.05	SWBF0057-060921	10564925003	0.24	0.012	0.05	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	Hard	mg/L	122	0.054	0.14	SWBF0057-060921	10564925003	122	0.054	0.14	0	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	HgDis	mg/L	0.0000047	0.0000047	0.00001	SWBF0057-060921	10564925003	0.0000047	0.0000047	0.00001	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	HgTR	mg/L	0.0000047	0.0000047	0.00001	SWBF0057-060921	10564925003	0.0000047	0.0000047	0.00001	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	MgDis	mg/L	8.8	0.0039	0.01	SWBF0057-060921	10564925003	8.9	0.0039	0.01	1.13	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	MoDis	mg/L	0.0054	0.000081	0.0005	SWBF0057-060921	10564925003	0.0054	0.000081	0.0005	0	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	MoTR	mg/L	0.0051	0.000081	0.0005	SWBF0057-060921	10564925003	0.0054	0.000081	0.0005	5.71	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	NH3-N	mg/L	0.03	0.03	0.1	SWBF0057-060921	10564925003	0.03	0.03	0.1	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	NO3/NO2-N	mg/L	1.1	0.078	0.2	SWBF0057-060921	10564925003	1.1	0.078	0.2	0	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	P	mg/L	0.084	0.05	0.1	SWBF0057-060921	10564925003	0.067	0.05	0.1	22.52	0.017
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	PbDis	mg/L	0.000052	0.000043	0.0001	SWBF0057-060921	10564925003	0.000056	0.000043	0.0001	7.41	0.000004
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	PbTR	mg/L	0.00018	0.000043	0.0001	SWBF0057-060921	10564925003	0.00018	0.000043	0.0001	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	SO4	mg/L	29.8	1.2	2.5	SWBF0057-060921	10564925003	31	1.2	2.5	3.95	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	TDS	mg/L	192	5	10	SWBF0057-060921	10564925003	92	5	10	70.42	
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	TKN	mg/L	0.48	0.48	0.5	SWBF0057-060921	10564925003	0.48	0.48	0.5	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	TSS	mg/L	5	5	10	SWBF0057-060921	10564925003	5	5	10	0	0
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	ZnDis	mg/L	0.0023	0.0023	0.005	SWBF0057-060921	10564925003	0.0027	0.0023	0.005	16	0.0004
SS-01	2021-06-09	SWBF0056-060921	10564925002	FG-N	10564925	ZnTR	mg/L	0.0025	0.0023	0.005	SWBF0057-060921	10564925003	0.0023	0.0023	0.005	8.33	0.0002
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	AgDis	mg/L	0.000077	0.000077	0.0005	SWBF0071-062221	10566969003	0.000077	0.000077	0.0005	0	0
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	AgTR	mg/L	0.000077	0.000077	0.0005	SWBF0071-062221	10566969003	0.000077	0.000077	0.0005	0	0
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	AlDis	mg/L	0.016	0.0071	0.02	SWBF0071-062221	10566969003	0.013	0.0071	0.02	20.69	0.003
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	ALK_CaCO3	mg/L	55.1	1.8	5	SWBF0071-062221	10566969003	54.6	1.8	5	0.91	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	AlTR	mg/L	0.086	0.0071	0.02	SWBF0071-062221	10566969003	0.076	0.0071	0.02	12.35	0.01
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	AsDis	mg/L	0.0024	0.00014	0.0005	SWBF0071-062221	10566969003	0.0025	0.00014	0.0005	4.08	0.0001
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	AsTR	mg/L	0.003	0.00014	0.0005	SWBF0071-062221	10566969003	0.0029	0.00014	0.0005	3.39	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	CaDis	mg/L	353	0.15	0.4	SWBF0071-062221	10566969003	349	0.15	0.4	1.14	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	CaTR	mg/L	339	0.15	0.4	SWBF0071-062221	10566969003	333	0.15	0.4	1.79	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	CdDis	mg/L	0.000058	0.00003	0.00008	SWBF0071-062221	10566969003	0.000061	0.00003	0.00008	5.04	0.000003
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	CdTR	mg/L	0.000063	0.00003	0.00008	SWBF0071-062221	10566969003	0.000047	0.00003	0.00008	29.09	0.000016
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	Cl-	mg/L	24.5	0.39	1.2	SWBF0071-062221	10566969003	24.5	0.39	1.2	0	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	CuDis	mg/L	0.0033	0.00043	0.001	SWBF0071-062221	10566969003	0.0022	0.00043	0.001	40	0.0011
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	CuTR	mg/L	0.0058	0.00043	0.001	SWBF0071-062221	10566969003	0.0053	0.00043	0.001	9.01	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	DOC	mg/L	1.9	0.3	1	SWBF0071-062221	10566969003	2.2	0.3	1	14.63	0.3
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	FeDis	mg/L	0.012	0.012	0.05	SWBF0071-062221	10566969003	0.012	0.012	0.05	0	0
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	FeTR	mg/L	0.19	0.012	0.05	SWBF0071-062221	10566969003	0.17	0.012	0.05	11.11	0.02
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	F-TR	mg/L	1.9	0.015	0.05	SWBF0071-062221	10566969003	1.9	0.015	0.05	0	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	Hard	mg/L	922	0.54	1.4	SWBF0071-062221	10566969003	912	0.54	1.4	1.09	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	HgDis	mg/L	0.0000047	0.0000047	0.00001	SWBF0071-062221	10566969003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	HgTR	mg/L	0.0000047	0.0000047	0.00001	SWBF0071-062221	10566969003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	KDis	mg/L	20	0.018	0.1	SWBF0071-062221	10566969003	20.6	0.018	0.1	2.96	

Highlighted cells indicate field precision outside of criteria

Table A5a. BPSOU 2021 Normal Flow Data Quality Assessment - Field Duplicates

Location	Sample Date	Natural Field ID	Natural Lab ID	Nat Sample Type	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate FieldID	Duplicate LabID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	MgDis	mg/L	9.8	0.0039	0.01	SWBF0071-062221	10566969003	10	0.0039	0.01	2.02	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	MnDis	mg/L	0.05	0.00022	0.0005	SWBF0071-062221	10566969003	0.051	0.00022	0.0005	1.98	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	MnTR	mg/L	0.063	0.00022	0.0005	SWBF0071-062221	10566969003	0.059	0.00022	0.0005	6.56	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	MoDis	mg/L	0.57	0.000081	0.0005	SWBF0071-062221	10566969003	0.58	0.000081	0.0005	1.74	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	MoTR	mg/L	0.54	0.000081	0.0005	SWBF0071-062221	10566969003	0.52	0.000081	0.0005	3.77	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	NaDis	mg/L	61.1	0.24	0.5	SWBF0071-062221	10566969003	60.5	0.24	0.5	0.99	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	NH3-N	mg/L	0.03	0.03	0.1	SWBF0071-062221	10566969003	0.11	0.03	0.1	114.29	0.08
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	NO3/NO2-N	mg/L	0.98	0.078	0.2	SWBF0071-062221	10566969003	1.2	0.078	0.2	20.18	0.22
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	P	mg/L	0.06	0.05	0.1	SWBF0071-062221	10566969003	0.062	0.05	0.1	3.28	0.002
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	PbDis	mg/L	0.000058	0.000043	0.0001	SWBF0071-062221	10566969003	0.000043	0.000043	0.0001	29.7	0.000015
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	PbTR	mg/L	0.00094	0.000043	0.0001	SWBF0071-062221	10566969003	0.00096	0.000043	0.0001	2.11	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	SiDis	mg/L	6.6	0.03	0.1	SWBF0071-062221	10566969003	6.8	0.03	0.1	2.99	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	SiTR	mg/L	6.6	0.03	0.1	SWBF0071-062221	10566969003	6.4	0.03	0.1	3.08	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	SO4	mg/L	918	30.2	62.5	SWBF0071-062221	10566969003	864	30.2	62.5	6.06	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	TDS	mg/L	1600	25	50	SWBF0071-062221	10566969003	1660	25	50	3.68	
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	TKN	mg/L	0.59	0.48	0.5	SWBF0071-062221	10566969003	0.48	0.48	0.5	20.56	0.11
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	TSS	mg/L	5	5	10	SWBF0071-062221	10566969003	5.2	5	10	3.92	0.2
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	ZnDis	mg/L	0.0079	0.0023	0.005	SWBF0071-062221	10566969003	0.0077	0.0023	0.005	2.56	0.0002
SS-06G	2021-06-22	SWBF0070-062221	10566969002	FG-N	10566969	ZnTR	mg/L	0.012	0.0023	0.005	SWBF0071-062221	10566969003	0.012	0.0023	0.005	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	AgDis	mg/L	0.00016	0.00016	0.0005	SWBF0083-070821	10569157003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	AgTR	mg/L	0.00016	0.00016	0.0005	SWBF0083-070821	10569157003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	AlDis	mg/L	0.008	0.008	0.02	SWBF0083-070821	10569157003	0.008	0.008	0.02	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	ALK_CaCO3	mg/L	58.9	1.8	5	SWBF0083-070821	10569157003	58.7	1.8	5	0.34	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	AlTR	mg/L	0.029	0.008	0.02	SWBF0083-070821	10569157003	0.026	0.008	0.02	10.91	0.003
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	AsDis	mg/L	0.0027	0.000083	0.0005	SWBF0083-070821	10569157003	0.0025	0.000083	0.0005	7.69	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	AsTR	mg/L	0.0025	0.000083	0.0005	SWBF0083-070821	10569157003	0.0025	0.000083	0.0005	0	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	CaDis	mg/L	210	0.18	0.4	SWBF0083-070821	10569157003	189	0.18	0.4	10.53	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	CdDis	mg/L	0.000038	0.000016	0.00008	SWBF0083-070821	10569157003	0.000032	0.000016	0.00008	17.14	0.000006
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	CdTR	mg/L	0.000057	0.000016	0.00008	SWBF0083-070821	10569157003	0.000053	0.000016	0.00008	7.27	0.000004
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	CuDis	mg/L	0.0024	0.0005	0.001	SWBF0083-070821	10569157003	0.0024	0.0005	0.001	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	CuTR	mg/L	0.004	0.0005	0.001	SWBF0083-070821	10569157003	0.0043	0.0005	0.001	7.23	0.0003
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	DOC	mg/L	1.6	0.3	1	SWBF0083-070821	10569157003	1.5	0.3	1	6.45	0.1
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	FeDis	mg/L	0.012	0.012	0.05	SWBF0083-070821	10569157003	0.012	0.012	0.05	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	FeTR	mg/L	0.099	0.012	0.05	SWBF0083-070821	10569157003	0.1	0.012	0.05	1.01	0.001
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	Hard	mg/L	565	0.6	1.4	SWBF0083-070821	10569157003	508	0.6	1.4	10.62	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	HgDis	mg/L	0.0000047	0.0000047	0.00001	SWBF0083-070821	10569157003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	HgTR	mg/L	0.0000047	0.0000047	0.00001	SWBF0083-070821	10569157003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	MgDis	mg/L	10	0.0034	0.01	SWBF0083-070821	10569157003	9.1	0.0034	0.01	9.42	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	MoDis	mg/L	0.31	0.000094	0.0005	SWBF0083-070821	10569157003	0.28	0.000094	0.0005	10.17	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	MoTR	mg/L	0.26	0.000094	0.0005	SWBF0083-070821	10569157003	0.28	0.000094	0.0005	7.41	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	NH3-N	mg/L	0.03	0.03	0.1	SWBF0083-070821	10569157003	0.035	0.03	0.1	15.38	0.005
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	NO3/NO2-N	mg/L	1.1	0.078	0.2	SWBF0083-070821	10569157003	1.1	0.078	0.2	0	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	P	mg/L	0.063	0.05	0.1	SWBF0083-070821	10569157003	0.05	0.05	0.1	23.01	0.013
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	PbDis	mg/L	0.000028	0.000028	0.0001	SWBF0083-070821	10569157003	0.000028	0.000028	0.0001	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	PbTR	mg/L	0.00054	0.000028	0.0001	SWBF0083-070821	10569157003	0.00057	0.000028	0.0001	5.41	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	SO4	mg/L	491	30.2	62.5	SWBF0083-070821	10569157003	446	30.2	62.5	9.61	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	TDS	mg/L	822	10	20	SWBF0083-070821	10569157003	834	10	20	1.45	
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	TKN	mg/L	0.48	0.48	0.5	SWBF0083-070821	10569157003	0.48	0.48	0.5	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	TSS	mg/L	5	5	10	SWBF0083-070821	10569157003	5	5	10	0	0
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	ZnDis	mg/L	0.013	0.002	0.005	SWBF0083-070821	10569157003	0.012	0.002	0.005	8	0.001
SS-06G	2021-07-08	SWBF0082-070821	10569157002	FG-N	10569157	ZnTR	mg/L	0.012	0.002	0.005	SWBF0083-070821	10569157003	0.013	0.002	0.005	8	0.001
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	AgDis	mg/L	0.00016	0.00016	0.0005	SWBF0109-080421	10573218003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	AgTR	mg/L	0.00016	0.00016	0.0005	SWBF0109-080421	10573218003	0.00016	0.00016	0.0005	0	0

Highlighted cells indicate field precision outside of criteria

Table A5a. BPSOU 2021 Normal Flow Data Quality Assessment - Field Duplicates

Location	Sample Date	Natural Field ID	Natural Lab ID	Nat Sample Type	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate FieldID	Duplicate LabID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	AlDis	mg/L	0.015	0.008	0.02	SWBF0109-080421	10573218003	0.016	0.008	0.02	6.45	0.001
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	ALK_CaCO3	mg/L	58.3	1.8	5	SWBF0109-080421	10573218003	57.8	1.8	5	0.86	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	AlTR	mg/L	0.047	0.008	0.02	SWBF0109-080421	10573218003	0.044	0.008	0.02	6.59	0.003
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	AsDis	mg/L	0.003	0.000083	0.0005	SWBF0109-080421	10573218003	0.0032	0.000083	0.0005	6.45	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	AsTR	mg/L	0.0029	0.000083	0.0005	SWBF0109-080421	10573218003	0.0029	0.000083	0.0005	0	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	CaDis	mg/L	250	0.36	0.8	SWBF0109-080421	10573218003	253	0.36	0.8	1.19	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	CdDis	mg/L	0.00006	0.000016	0.00008	SWBF0109-080421	10573218003	0.000066	0.000016	0.00008	9.52	0.000006
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	CdTR	mg/L	0.000099	0.000016	0.00008	SWBF0109-080421	10573218003	0.000096	0.000016	0.00008	3.08	0.000003
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	CuDis	mg/L	0.0023	0.0005	0.001	SWBF0109-080421	10573218003	0.0024	0.0005	0.001	4.26	0.0001
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	CuTR	mg/L	0.014	0.0005	0.001	SWBF0109-080421	10573218003	0.004	0.0005	0.001	111.11	0.01
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	DOC	mg/L	1.7	0.3	1	SWBF0109-080421	10573218003	1.8	0.3	1	5.71	0.1
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	FeDis	mg/L	0.012	0.012	0.05	SWBF0109-080421	10573218003	0.012	0.012	0.05	0	0
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	FeTR	mg/L	0.081	0.012	0.05	SWBF0109-080421	10573218003	0.093	0.012	0.05	13.79	0.012
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	HgDis	mg/L	0.0000047	0.0000047	0.00001	SWBF0109-080421	10573218003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	HgTR	mg/L	0.0000047	0.0000047	0.00001	SWBF0109-080421	10573218003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	MgDis	mg/L	8.7	0.0034	0.01	SWBF0109-080421	10573218003	9.3	0.0034	0.01	6.67	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	MoDis	mg/L	0.37	0.000094	0.0005	SWBF0109-080421	10573218003	0.39	0.000094	0.0005	5.26	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	MoTR	mg/L	0.39	0.000094	0.0005	SWBF0109-080421	10573218003	0.38	0.000094	0.0005	2.6	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	NH3-N	mg/L	0.03	0.03	0.1	SWBF0109-080421	10573218003	0.03	0.03	0.1	0	0
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	NO3/NO2-N	mg/L	0.87	0.078	0.2	SWBF0109-080421	10573218003	0.88	0.078	0.2	1.14	0.01
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	P	mg/L	0.05	0.05	0.1	SWBF0109-080421	10573218003	0.05	0.05	0.1	0	0
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	PbDis	mg/L	0.000034	0.000028	0.0001	SWBF0109-080421	10573218003	0.000038	0.000028	0.0001	11.11	0.000004
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	PbTR	mg/L	0.00074	0.000028	0.0001	SWBF0109-080421	10573218003	0.00085	0.000028	0.0001	13.84	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	SO4	mg/L	579	30.2	62.5	SWBF0109-080421	10573218003	578	30.2	62.5	0.17	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	TDS	mg/L	808	5	10	SWBF0109-080421	10573218003	1070	5	10	27.9	
SS-06G	2021-08-04	SWBF0108-080421	10573218002	FG-N	10573218	TKN	mg/L	0.48	0.48	0.5	SWBF0109-080421	10573218003	0.48	0.48	0.5	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	AgDis	mg/L	0.00016	0.00016	0.0005	SWBF0135-090121	10577494003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	AgTR	mg/L	0.00016	0.00016	0.0005	SWBF0135-090121	10577494003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	AlDis	mg/L	0.026	0.008	0.02	SWBF0135-090121	10577494003	0.025	0.008	0.02	3.92	0.001
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	ALK_CaCO3	mg/L	56.7	1.8	5	SWBF0135-090121	10577494003	56.5	1.8	5	0.35	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	AlTR	mg/L	0.074	0.008	0.02	SWBF0135-090121	10577494003	0.073	0.008	0.02	1.36	0.001
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	AsDis	mg/L	0.0035	0.000083	0.0005	SWBF0135-090121	10577494003	0.0034	0.000083	0.0005	2.9	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	AsTR	mg/L	0.0037	0.000083	0.0005	SWBF0135-090121	10577494003	0.0038	0.000083	0.0005	2.67	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	CaDis	mg/L	281	0.18	0.4	SWBF0135-090121	10577494003	252	0.18	0.4	10.88	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	CdDis	mg/L	0.000016	0.000016	0.00008	SWBF0135-090121	10577494003	0.000016	0.000016	0.00008	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	CdTR	mg/L	0.000027	0.000016	0.00008	SWBF0135-090121	10577494003	0.000019	0.000016	0.00008	34.78	0.000008
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	CuDis	mg/L	0.0022	0.0005	0.001	SWBF0135-090121	10577494003	0.002	0.0005	0.001	9.52	0.0002
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	CuTR	mg/L	0.005	0.0005	0.001	SWBF0135-090121	10577494003	0.0053	0.0005	0.001	5.83	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	DOC	mg/L	1.7	0.3	1	SWBF0135-090121	10577494003	1.6	0.3	1	6.06	0.1
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	FeDis	mg/L	0.013	0.012	0.05	SWBF0135-090121	10577494003	0.012	0.012	0.05	8	0.001
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	FeTR	mg/L	0.11	0.012	0.05	SWBF0135-090121	10577494003	0.11	0.012	0.05	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	Hard	mg/L	738	0.6	1.4	SWBF0135-090121	10577494003	665	0.6	1.4	10.41	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	HgDis	mg/L	0.0000047	0.0000047	0.00001	SWBF0135-090121	10577494003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	HgTR	mg/L	0.0000047	0.0000047	0.00001	SWBF0135-090121	10577494003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	MgDis	mg/L	8.8	0.0034	0.01	SWBF0135-090121	10577494003	8.7	0.0034	0.01	1.14	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	MoDis	mg/L	0.49	0.000094	0.0005	SWBF0135-090121	10577494003	0.49	0.000094	0.0005	0	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	MoTR	mg/L	0.5	0.000094	0.0005	SWBF0135-090121	10577494003	0.49	0.000094	0.0005	2.02	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	NH3-N	mg/L	0.03	0.03	0.1	SWBF0135-090121	10577494003	0.03	0.03	0.1	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	NO3/NO2-N	mg/L	1.1	0.078	0.2	SWBF0135-090121	10577494003	1.1	0.078	0.2	0	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	P	mg/L	0.05	0.05	0.1	SWBF0135-090121	10577494003	0.05	0.05	0.1	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	PbDis	mg/L	0.000052	0.000028	0.0001	SWBF0135-090121	10577494003	0.000052	0.000028	0.0001	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	PbTR	mg/L	0.001	0.000028	0.0001	SWBF0135-090121	10577494003	0.001	0.000028	0.0001	0	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	SO4	mg/L	911	30.2	62.5	SWBF0135-090121	10577494003	986	30.2	62.5	7.91	

Highlighted cells indicate field precision outside of criteria

Table A5a. BPSOU 2021 Normal Flow Data Quality Assessment - Field Duplicates

Location	Sample Date	Natural Field ID	Natural Lab ID	Nat Sample Type	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate FieldID	Duplicate LabID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	TDS	mg/L	1310	25	50	SWBF0135-090121	10577494003	1320	25	50	0.76	
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	TKN	mg/L	0.48	0.48	0.5	SWBF0135-090121	10577494003	0.48	0.48	0.5	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	TSS	mg/L	5.2	5	10	SWBF0135-090121	10577494003	5	5	10	3.92	0.2
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	ZnDis	mg/L	0.014	0.002	0.005	SWBF0135-090121	10577494003	0.014	0.002	0.005	0	0
SS-06G	2021-09-01	SWBF0134-090121	10577494002	FG-N	10577494	ZnTR	mg/L	0.017	0.002	0.005	SWBF0135-090121	10577494003	0.017	0.002	0.005	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	AgDis	mg/L	0.00016	0.00016	0.0005	SWBF0165-101821	10584279003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	AgTR	mg/L	0.00016	0.00016	0.0005	SWBF0165-101821	10584279003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	AlDis	mg/L	0.026	0.008	0.02	SWBF0165-101821	10584279003	0.024	0.008	0.02	8	0.002
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	ALK_CaCO3	mg/L	81.4	1.8	5	SWBF0165-101821	10584279003	82	1.8	5	0.73	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	AlTR	mg/L	0.048	0.008	0.02	SWBF0165-101821	10584279003	0.049	0.008	0.02	2.06	0.001
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	AsDis	mg/L	0.0043	0.000083	0.0005	SWBF0165-101821	10584279003	0.0043	0.000083	0.0005	0	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	AsTR	mg/L	0.004	0.000083	0.0005	SWBF0165-101821	10584279003	0.0043	0.000083	0.0005	7.23	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	CaDis	mg/L	290	0.18	0.4	SWBF0165-101821	10584279003	290	0.18	0.4	0	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	CdDis	mg/L	0.00011	0.000016	0.00008	SWBF0165-101821	10584279003	0.0001	0.000016	0.00008	9.52	0.00001
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	CdTR	mg/L	0.00013	0.000016	0.00008	SWBF0165-101821	10584279003	0.00012	0.000016	0.00008	8	0.00001
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	CuDis	mg/L	0.0026	0.0005	0.001	SWBF0165-101821	10584279003	0.0024	0.0005	0.001	8	0.0002
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	CuTR	mg/L	0.0046	0.0005	0.001	SWBF0165-101821	10584279003	0.0048	0.0005	0.001	4.26	0.0002
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	DOC	mg/L	1.5	0.3	1	SWBF0165-101821	10584279003	1.3	0.3	1	14.29	0.2
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	FeDis	mg/L	0.012	0.012	0.05	SWBF0165-101821	10584279003	0.012	0.012	0.05	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	FeTR	mg/L	0.071	0.012	0.05	SWBF0165-101821	10584279003	0.075	0.012	0.05	5.48	0.004
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	Hard	mg/L	773	0.6	1.4	SWBF0165-101821	10584279003	770	0.6	1.4	0.39	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	HgDis	mg/L	0.0000047	0.0000047	0.00001	SWBF0165-101821	10584279003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	HgTR	mg/L	0.0000047	0.0000047	0.00001	SWBF0165-101821	10584279003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	MgDis	mg/L	11.7	0.0034	0.01	SWBF0165-101821	10584279003	11.1	0.0034	0.01	5.26	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	MoDis	mg/L	0.45	0.000094	0.0005	SWBF0165-101821	10584279003	0.43	0.000094	0.0005	4.55	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	MoTR	mg/L	0.44	0.000094	0.0005	SWBF0165-101821	10584279003	0.46	0.00094	0.005	4.44	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	NH3-N	mg/L	0.03	0.03	0.1	SWBF0165-101821	10584279003	0.03	0.03	0.1	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	NO3/NO2-N	mg/L	1.2	0.078	0.2	SWBF0165-101821	10584279003	1.3	0.078	0.2	8	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	P	mg/L	0.05	0.05	0.1	SWBF0165-101821	10584279003	0.05	0.05	0.1	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	PbDis	mg/L	0.000028	0.000028	0.0001	SWBF0165-101821	10584279003	0.000028	0.000028	0.0001	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	PbTR	mg/L	0.0005	0.000028	0.0001	SWBF0165-101821	10584279003	0.00051	0.000028	0.0001	1.98	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	SO4	mg/L	793	30.2	62.5	SWBF0165-101821	10584279003	810	30.2	62.5	2.12	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	TDS	mg/L	1340	5	10	SWBF0165-101821	10584279003	1340	5	10	0	
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	TKN	mg/L	0.48	0.48	0.5	SWBF0165-101821	10584279003	0.65	0.48	0.5	30.09	0.17
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	TSS	mg/L	5	5	10	SWBF0165-101821	10584279003	5	5	10	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	ZnDis	mg/L	0.015	0.002	0.005	SWBF0165-101821	10584279003	0.015	0.002	0.005	0	0
SS-06G	2021-10-18	SWBF0164-101821	10584279002	FG-N	10584279	ZnTR	mg/L	0.018	0.002	0.005	SWBF0165-101821	10584279003	0.02	0.002	0.005	10.53	0.002
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	AgDis	mg/L	0.00016	0.00016	0.0005	SWBF0175-110121	10585797003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	AgTR	mg/L	0.00016	0.00016	0.0005	SWBF0175-110121	10585797003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	AlDis	mg/L	0.035	0.008	0.02	SWBF0175-110121	10585797003	0.051	0.008	0.02	37.21	0.016
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	ALK_CaCO3	mg/L	65.3	1.8	5	SWBF0175-110121	10585797003	65.5	1.8	5	0.31	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	AlTR	mg/L	0.082	0.008	0.02	SWBF0175-110121	10585797003	0.087	0.008	0.02	5.92	0.005
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	AsDis	mg/L	0.0029	0.000083	0.0005	SWBF0175-110121	10585797003	0.0029	0.000083	0.0005	0	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	AsTR	mg/L	0.0032	0.000083	0.0005	SWBF0175-110121	10585797003	0.0033	0.000083	0.0005	3.08	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	CaDis	mg/L	263	0.18	0.4	SWBF0175-110121	10585797003	253	0.18	0.4	3.88	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	CdDis	mg/L	0.000091	0.000016	0.00008	SWBF0175-110121	10585797003	0.000099	0.000016	0.00008	8.42	0.00001
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	CdTR	mg/L	0.00013	0.000016	0.00008	SWBF0175-110121	10585797003	0.00012	0.000016	0.00008	8	0.00001
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	CuDis	mg/L	0.0019	0.0005	0.001	SWBF0175-110121	10585797003	0.0019	0.0005	0.001	0	0
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	CuTR	mg/L	0.0047	0.0005	0.001	SWBF0175-110121	10585797003	0.005	0.0005	0.001	6.19	0.0003
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	DOC	mg/L	1.5	0.3	1	SWBF0175-110121	10585797003	1.4	0.3	1	6.9	0.1
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	FeDis	mg/L	0.023	0.012	0.05	SWBF0175-110121	10585797003	0.027	0.012	0.05	16	0.004
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	FeTR	mg/L	0.12	0.012	0.05	SWBF0175-110121	10585797003	0.12	0.012	0.05	0	0
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	Hard	mg/L	695	0.6	1.4	SWBF0175-110121	10585797003	668	0.6	1.4	3.96	

Highlighted cells indicate field precision outside of criteria

Table A5a. BPSOU 2021 Normal Flow Data Quality Assessment - Field Duplicates

Location	Sample Date	Natural Field ID	Natural Lab ID	Nat Sample Type	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate FieldID	Duplicate LabID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	HgDis	mg/L	0.0000047	0.0000047	0.00001	SWBF0175-110121	10585797003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	HgTR	mg/L	0.0000047	0.0000047	0.00001	SWBF0175-110121	10585797003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	MgDis	mg/L	8.9	0.0034	0.01	SWBF0175-110121	10585797003	8.8	0.0034	0.01	1.13	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	MoDis	mg/L	0.43	0.000094	0.0005	SWBF0175-110121	10585797003	0.41	0.000094	0.0005	4.76	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	MoTR	mg/L	0.43	0.000094	0.0005	SWBF0175-110121	10585797003	0.44	0.000094	0.0005	2.3	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	NH3-N	mg/L	0.03	0.03	0.1	SWBF0175-110121	10585797003	0.036	0.03	0.1	18.18	0.006
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	NO3/NO2-N	mg/L	1.2	0.078	0.2	SWBF0175-110121	10585797003	1.3	0.078	0.2	8	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	P	mg/L	0.2	0.05	0.1	SWBF0175-110121	10585797003	0.05	0.05	0.1	120	0.15
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	PbDis	mg/L	0.000041	0.000028	0.0001	SWBF0175-110121	10585797003	0.000048	0.000028	0.0001	15.73	0.000007
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	PbTR	mg/L	0.00091	0.000028	0.0001	SWBF0175-110121	10585797003	0.00094	0.000028	0.0001	3.24	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	SO4	mg/L	726	30.2	62.5	SWBF0175-110121	10585797003	662	30.2	62.5	9.22	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	TDS	mg/L	1190	5	10	SWBF0175-110121	10585797003	1180	5	10	0.84	
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	TKN	mg/L	0.48	0.48	0.5	SWBF0175-110121	10585797003	0.48	0.48	0.5	0	0
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	TSS	mg/L	5	5	10	SWBF0175-110121	10585797003	5	5	10	0	0
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	ZnDis	mg/L	0.013	0.002	0.005	SWBF0175-110121	10585797003	0.013	0.002	0.005	0	0
SS-06G	2021-11-01	SWBF0174-110121	10585797002	FG-N	10585797	ZnTR	mg/L	0.017	0.002	0.005	SWBF0175-110121	10585797003	0.018	0.002	0.005	5.71	0.001
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	AgDis	mg/L	0.00016	0.00016	0.0005	SWBF0185-120821	10590953003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	AgTR	mg/L	0.00016	0.00016	0.0005	SWBF0185-120821	10590953003	0.00016	0.00016	0.0005	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	AlDis	mg/L	0.023	0.008	0.02	SWBF0185-120821	10590953003	0.021	0.008	0.02	9.09	0.002
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	ALK_CaCO3	mg/L	65	1.8	5	SWBF0185-120821	10590953003	64.7	1.8	5	0.46	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	AlTR	mg/L	0.11	0.008	0.02	SWBF0185-120821	10590953003	0.11	0.008	0.02	0	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	AsDis	mg/L	0.0022	0.000083	0.0005	SWBF0185-120821	10590953003	0.0021	0.000083	0.0005	4.65	0.0001
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	AsTR	mg/L	0.0025	0.000083	0.0005	SWBF0185-120821	10590953003	0.0025	0.000083	0.0005	0	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	CaDis	mg/L	254	0.18	0.4	SWBF0185-120821	10590953003	251	0.18	0.4	1.19	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	CdDis	mg/L	0.000045	0.000016	0.00008	SWBF0185-120821	10590953003	0.000056	0.000016	0.00008	21.78	0.000011
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	CdTR	mg/L	0.000059	0.000016	0.00008	SWBF0185-120821	10590953003	0.000053	0.000016	0.00008	10.71	0.000006
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	CuDis	mg/L	0.002	0.0005	0.001	SWBF0185-120821	10590953003	0.0019	0.0005	0.001	5.13	0.0001
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	CuTR	mg/L	0.0069	0.0005	0.001	SWBF0185-120821	10590953003	0.0065	0.0005	0.001	5.97	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	DOC	mg/L	1.5	0.3	1	SWBF0185-120821	10590953003	1.3	0.3	1	14.29	0.2
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	FeDis	mg/L	0.012	0.012	0.05	SWBF0185-120821	10590953003	0.012	0.012	0.05	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	FeTR	mg/L	0.19	0.012	0.05	SWBF0185-120821	10590953003	0.19	0.012	0.05	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	Hard	mg/L	676	0.6	1.4	SWBF0185-120821	10590953003	667	0.6	1.4	1.34	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	HgDis	mg/L	0.0000047	0.0000047	0.00001	SWBF0185-120821	10590953003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	HgTR	mg/L	0.0000047	0.0000047	0.00001	SWBF0185-120821	10590953003	0.0000047	0.0000047	0.00001	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	MgDis	mg/L	10.1	0.0034	0.01	SWBF0185-120821	10590953003	9.7	0.0034	0.01	4.04	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	MoDis	mg/L	0.36	0.000094	0.0005	SWBF0185-120821	10590953003	0.35	0.000094	0.0005	2.82	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	MoTR	mg/L	0.36	0.000094	0.0005	SWBF0185-120821	10590953003	0.36	0.000094	0.0005	0	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	NH3-N	mg/L	0.03	0.03	0.1	SWBF0185-120821	10590953003	0.03	0.03	0.1	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	NO3/NO2-N	mg/L	1.2	0.078	0.2	SWBF0185-120821	10590953003	1.2	0.078	0.2	0	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	P	mg/L	0.05	0.05	0.1	SWBF0185-120821	10590953003	0.05	0.05	0.1	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	PbDis	mg/L	0.000039	0.000028	0.0001	SWBF0185-120821	10590953003	0.000028	0.000028	0.0001	32.84	0.000011
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	PbTR	mg/L	0.0014	0.000028	0.0001	SWBF0185-120821	10590953003	0.0014	0.000028	0.0001	0	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	SO4	mg/L	609	24.2	50	SWBF0185-120821	10590953003	597	24.2	50	1.99	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	TDS	mg/L	1090	5	10	SWBF0185-120821	10590953003	1070	5	10	1.85	
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	TKN	mg/L	0.48	0.48	0.5	SWBF0185-120821	10590953003	0.48	0.48	0.5	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	TSS	mg/L	5	5	10	SWBF0185-120821	10590953003	5	5	10	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	ZnDis	mg/L	0.015	0.002	0.005	SWBF0185-120821	10590953003	0.015	0.002	0.005	0	0
SS-06G	2021-12-08	SWBF0184-120821	10590953002	FG-N	10590953	ZnTR	mg/L	0.022	0.002	0.005	SWBF0185-120821	10590953003	0.022	0.002	0.005	0	0

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10545858	PACE_LEN	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	702970	Surface Water	DOC	2021-02-05	METHOD	2021-02-05	SM 5310C	2021-02-18	
10545858	PACE_LEN	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	702970	Surface Water	DOC	2021-02-05	METHOD	2021-02-05	SM 5310C	2021-02-18	
10545858	PACE_LEN	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	702970	Surface Water	DOC	2021-02-05	METHOD	2021-02-05	SM 5310C	2021-02-18	
10545858	PACE_LEN	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	702970	Surface Water	DOC	2021-02-05	METHOD	2021-02-05	SM 5310C	2021-02-18	
10545858	PACE_LEN	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	702970	Surface Water	DOC	2021-02-05	METHOD	2021-02-05	SM 5310C	2021-02-18	
10545858	PACE_LEN	1/21/2021	SWBF0010-012121	10545858010	2021-01-21	FG	702970	Surface Water	DOC	2021-02-05	METHOD	2021-02-05	SM 5310C	2021-02-18	
10545858	PACE_LEN	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	703007	Surface Water	TKN	2021-02-08	METHOD	2021-02-08	EPA 351.2	2021-02-18	
10545858	PACE_LEN	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	703007	Surface Water	TKN	2021-02-08	METHOD	2021-02-08	EPA 351.2	2021-02-18	
10545858	PACE_LEN	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	703007	Surface Water	TKN	2021-02-08	METHOD	2021-02-08	EPA 351.2	2021-02-18	
10545858	PACE_LEN	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	703007	Surface Water	TKN	2021-02-08	METHOD	2021-02-08	EPA 351.2	2021-02-18	
10545858	PACE_LEN	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	703007	Surface Water	TKN	2021-02-08	METHOD	2021-02-08	EPA 351.2	2021-02-18	
10545858	PACE_LEN	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	703007	Surface Water	TKN	2021-02-08	METHOD	2021-02-08	EPA 351.2	2021-02-18	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721906	Surface Water	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721909	Surface Water	AgTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721909	Surface Water	AlTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721909	Surface Water	AsTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721909	Surface Water	CdTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721909	Surface Water	CuTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721909	Surface Water	FeTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721909	Surface Water	MoTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721909	Surface Water	PbTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	721909	Surface Water	ZnTR	2021-01-26	METHOD	2021-02-01	EPA 200.8	2021-07-20	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	722097	Surface Water	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	2021-02-18	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	722205	Surface Water	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	722461	Surface Water	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	2021-02-04	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	722551	Surface Water	NH3-N	2021-01-27	METHOD	2021-01-27	EPA 350.1	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	722551	Surface Water	NH3-N	2021-01-27	METHOD	2021-01-27	EPA 350.1	2021-02-18	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	722551	Surface Water	NH3-N	2021-01-27	METHOD	2021-01-27	EPA 350.1	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	722551	Surface Water	NH3-N	2021-01-27	METHOD	2021-01-27	EPA 350.1	2021-02-18	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	722552	Surface Water	NH3-N	2021-01-27	METHOD	2021-01-27	EPA 350.1	2021-02-18	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	722552	Surface Water	NH3-N	2021-01-27	METHOD	2021-01-27	EPA 350.1	2021-02-18	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	722565	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	722565	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	722565	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	722565	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	722565	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	722565	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	722567	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	722567	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	722567	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	722567	Surface Water	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	2021-01-28	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	722569	Surface Water	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	2021-01-28	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	722636	Surface Water	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	2021-02-18	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-04	SWBF0008-012121	10545858008	2021-01-21	FG	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-05	SWBF0007-012121	10545858007	2021-01-21	FG	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-05A	SWBF0006-012121	10545858006	2021-01-21	FG	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-06A	SWBF0005-012121	10545858005	2021-01-21	FG	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	722746	Surface Water	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0003-012121	10545858003	2021-01-21	FG-D	723711	Surface Water	P	2021-02-03	SM4500-P-B	2021-02-04	SM 4500-P-F	2021-02-18	
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	FB	723711	Surface Water	P	2021-02-03	SM4500-P-B	2021-02-04	SM 4500-P-F	2021-02-18	
10545858	PACE_MPLS	SS-06G	SWBF0002-012121	10545858002	2021-01-21	FG-N	723711	Surface Water	P	2021-02-03	SM4500-P-B	2021-02-04	SM 4500-P-F	2021-02-18	
10545858	PACE_MPLS	SS-07	SWBF0001-012121	10545858001	2021-01-21	FG	723711	Surface Water	P	2021-02-03	SM4500-P-B	2021-02-04	SM 4500-P-F	2021-02-18	
10545858	PACE_MPLS	SS-01	SWBF0010-012121	10545858010	2021-01-21	FG	723711	Surface Water	P	2021-02-03	SM4500-P-B	2021-02-04	SM 4500-P-F	2021-02-18	
10545858	PACE_MPLS	SS-01.35	SWBF0009-012121	10545858009	2021-01-21	FG	723711	Surface Water	P	2021-02-03	SM4500-P-B	2021-02-04	SM 4500-P-F	2021-02-18	
10550036	PACE_MTJ	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	163561	Surface Water	DOC	2021-03-18	METHOD	2021-03-18	SM 5310B	2021-03-22	
10550036	PACE_MTJ	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	163561	Surface Water	DOC	2021-03-18	METHOD	2021-03-18	SM 5310B	2021-03-22	
10550036	PACE_MTJ	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	163561	Surface Water	DOC	2021-03-18	METHOD	2021-03-18	SM 5310B	2021-03-22	
10550036	PACE_MTJ	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	163561	Surface Water	DOC	2021-03-18	METHOD	2021-03-18	SM 5310B	2021-03-22	
10550036	PACE_MTJ	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	163561	Surface Water	DOC	2021-03-18	METHOD	2021-03-18	SM 5310B	2021-03-22	
10550036	PACE_MTJ	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	163561	Surface Water	DOC	2021-03-18	METHOD	2021-03-18	SM 5310B	2021-03-22	
10550036	PACE_LEN	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	708790	Surface Water	TKN	2021-03-16	METHOD	2021-03-17	EPA 351.2	2021-03-22	
10550036	PACE_LEN	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	708790	Surface Water	TKN	2021-03-16	METHOD	2021-03-17	EPA 351.2	2021-03-22	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10550036	PACE_LEN	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	708790	Surface Water	TKN	2021-03-16	METHOD	2021-03-17	EPA 351.2	2021-03-22	
10550036	PACE_LEN	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	708790	Surface Water	TKN	2021-03-16	METHOD	2021-03-17	EPA 351.2	2021-03-22	
10550036	PACE_LEN	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	708790	Surface Water	TKN	2021-03-16	METHOD	2021-03-17	EPA 351.2	2021-03-22	
10550036	PACE_LEN	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	708790	Surface Water	TKN	2021-03-16	METHOD	2021-03-17	EPA 351.2	2021-03-22	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728178	Surface Water	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	2021-03-08	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728185	Surface Water	NO3/NO2-N	2021-03-08	METHOD	2021-03-08	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728302	Surface Water	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728302	Surface Water	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728302	Surface Water	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728302	Surface Water	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728302	Surface Water	CuTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728302	Surface Water	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728302	Surface Water	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728302	Surface Water	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	2021-08-21	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728302	Surface Water	ZnTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728719	Surface Water	NH3-N	2021-03-10	METHOD	2021-03-10	EPA 350.1	2021-03-22	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728719	Surface Water	NH3-N	2021-03-10	METHOD	2021-03-10	EPA 350.1	2021-03-22	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728719	Surface Water	NH3-N	2021-03-10	METHOD	2021-03-10	EPA 350.1	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728719	Surface Water	NH3-N	2021-03-10	METHOD	2021-03-10	EPA 350.1	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728719	Surface Water	NH3-N	2021-03-10	METHOD	2021-03-10	EPA 350.1	2021-03-22	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728719	Surface Water	NH3-N	2021-03-10	METHOD	2021-03-10	EPA 350.1	2021-03-22	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728834	Surface Water	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	728957	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	728959	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	728959	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	728959	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	728959	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	728959	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	728959	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	728959	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	728959	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	728959	Surface Water	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	2021-03-22	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	729344	Surface Water	P	2021-03-13	SM4500-P-B	2021-03-14	SM 4500-P-F	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	729344	Surface Water	P	2021-03-13	SM4500-P-B	2021-03-14	SM 4500-P-F	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	729344	Surface Water	P	2021-03-13	SM4500-P-B	2021-03-14	SM 4500-P-F	2021-03-22	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	729344	Surface Water	P	2021-03-13	SM4500-P-B	2021-03-14	SM 4500-P-F	2021-03-22	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	729344	Surface Water	P	2021-03-13	SM4500-P-B	2021-03-14	SM 4500-P-F	2021-03-22	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	729344	Surface Water	P	2021-03-13	SM4500-P-B	2021-03-14	SM 4500-P-F	2021-03-22	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	729448	Surface Water	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	729448	Surface Water	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	729448	Surface Water	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	729448	Surface Water	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	729448	Surface Water	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	729448	Surface Water	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	729448	Surface Water	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	729448	Surface Water	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	729448	Surface Water	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	729771	Surface Water	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	2021-03-22	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	AgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	AgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	AgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	AgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	AgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	AgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	AgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	AgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	AgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	AlDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	AlDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	AlDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	AlDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	AlDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	AlDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	AlDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	AlDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	AlDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	AsDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	AsDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	AsDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	AsDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	AsDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	AsDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	AsDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	AsDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	AsDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	CaDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	CaDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	CaDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	CaDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	CaDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	CaDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	CaDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	CaDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	CaDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	CdDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	CdDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	CdDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	CdDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	CdDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	CdDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	CdDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	CdDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	CdDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	CuDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	CuDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	CuDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	CuDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	CuDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	CuDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	CuDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	CuDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	CuDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	FeDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	FeDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	FeDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	FeDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	FeDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	FeDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	FeDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	FeDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	FeDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	Hard	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	Hard	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	Hard	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	Hard	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	Hard	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	Hard	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	Hard	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	Hard	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	Hard	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	MgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	MgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	MgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	MgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	MgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	MgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	MgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	MgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	MgDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	MoDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	MoDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	MoDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	MoDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	MoDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	MoDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	MoDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	MoDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	MoDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	PbDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	PbDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	PbDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	PbDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	PbDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	PbDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	PbDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	PbDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	PbDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0013-022221	10550036003	2021-02-22	FG-D	730493	Surface Water	ZnDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06G	SWBF0012-022221	10550036002	2021-02-22	FG-N	730493	Surface Water	ZnDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-07	SWBF0011-022221	10550036001	2021-02-22	FG	730493	Surface Water	ZnDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-06A	SWBF0015-022221	10550036005	2021-02-22	FG	730493	Surface Water	ZnDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05A	SWBF0016-022221	10550036006	2021-02-22	FG	730493	Surface Water	ZnDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10550036	PACE_MPLS	SS-04	SWBF0018-022221	10550036008	2021-02-22	FG	730493	Surface Water	ZnDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-05	SWBF0017-022221	10550036007	2021-02-22	FG	730493	Surface Water	ZnDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01	SWBF0020-022221	10550036010	2021-02-22	FG	730493	Surface Water	ZnDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SS-01.35	SWBF0019-022221	10550036009	2021-02-22	FG	730493	Surface Water	ZnDis	2021-03-21	METHOD	2021-03-22	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	AgDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	AlDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	AsDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	CaDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	CdDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	CuDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	FeDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	Hard	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	MgDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	MoDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	PbDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	FB	730869	Surface Water	ZnDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	2021-08-21	
10551370	PACE_LEN	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	710002	Surface Water	DOC	2021-03-23	METHOD	2021-03-23	SM 5310C	2021-04-13	
10551370	PACE_LEN	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	710002	Surface Water	DOC	2021-03-23	METHOD	2021-03-23	SM 5310C	2021-04-13	
10551370	PACE_LEN	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	710002	Surface Water	DOC	2021-03-23	METHOD	2021-03-23	SM 5310C	2021-04-13	
10551370	PACE_LEN	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	710002	Surface Water	DOC	2021-03-23	METHOD	2021-03-23	SM 5310C	2021-04-13	
10551370	PACE_LEN	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	710002	Surface Water	DOC	2021-03-23	METHOD	2021-03-23	SM 5310C	2021-04-13	
10551370	PACE_LEN	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	710002	Surface Water	DOC	2021-03-23	METHOD	2021-03-23	SM 5310C	2021-04-13	
10551370	PACE_LEN	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	710709	Surface Water	TKN	2021-03-26	METHOD	2021-03-26	EPA 351.2	2021-04-13	
10551370	PACE_LEN	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	710709	Surface Water	TKN	2021-03-26	METHOD	2021-03-26	EPA 351.2	2021-04-13	
10551370	PACE_LEN	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	710709	Surface Water	TKN	2021-03-26	METHOD	2021-03-26	EPA 351.2	2021-04-13	
10551370	PACE_LEN	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	710709	Surface Water	TKN	2021-03-26	METHOD	2021-03-26	EPA 351.2	2021-04-13	
10551370	PACE_LEN	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	710709	Surface Water	TKN	2021-03-26	METHOD	2021-03-26	EPA 351.2	2021-04-13	
10551370	PACE_LEN	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	710709	Surface Water	TKN	2021-03-26	METHOD	2021-03-26	EPA 351.2	2021-04-13	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730311	Surface Water	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730313	Surface Water	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730313	Surface Water	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730313	Surface Water	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730313	Surface Water	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730313	Surface Water	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730313	Surface Water	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730313	Surface Water	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730313	Surface Water	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730313	Surface Water	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	2021-09-12	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730495	Surface Water	NH3-N	2021-03-21	METHOD	2021-03-21	EPA 350.1	2021-04-13	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730495	Surface Water	NH3-N	2021-03-21	METHOD	2021-03-21	EPA 350.1	2021-04-13	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730496	Surface Water	NH3-N	2021-03-21	METHOD	2021-03-21	EPA 350.1	2021-04-13	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730496	Surface Water	NH3-N	2021-03-21	METHOD	2021-03-21	EPA 350.1	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730496	Surface Water	NH3-N	2021-03-21	METHOD	2021-03-21	EPA 350.1	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730496	Surface Water	NH3-N	2021-03-21	METHOD	2021-03-21	EPA 350.1	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730672	Surface Water	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730689	Surface Water	P	2021-03-22	SM4500-P-B	2021-03-23	SM 4500-P-F	2021-04-13	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730689	Surface Water	P	2021-03-22	SM4500-P-B	2021-03-23	SM 4500-P-F	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730689	Surface Water	P	2021-03-22	SM4500-P-B	2021-03-23	SM 4500-P-F	2021-04-13	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730689	Surface Water	P	2021-03-22	SM4500-P-B	2021-03-23	SM 4500-P-F	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730689	Surface Water	P	2021-03-22	SM4500-P-B	2021-03-23	SM 4500-P-F	2021-04-13	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730689	Surface Water	P	2021-03-22	SM4500-P-B	2021-03-23	SM 4500-P-F	2021-04-13	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730771	Surface Water	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	2021-03-30	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730852	Surface Water	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	2021-04-13	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730926	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730926	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730926	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730926	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730926	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730926	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730926	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730928	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730928	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730928	Surface Water	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	2021-03-23	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	730929	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	730929	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	730929	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	730929	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	730929	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	730929	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	730929	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	730929	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	730929	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	730930	Surface Water	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	2021-03-23	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	731045	Surface Water	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	2021-04-13	
10551370	PACE_MPLS	SS-07	SWBF0021-031621	10551370001	2021-03-16	FG	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	
10551370	PACE_MPLS	SS-05	SWBF0025-031621	10551370005	2021-03-16	FG	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10551370	PACE_MPLS	SS-05A	SWBF0024-031621	10551370004	2021-03-16	FG	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	
10551370	PACE_MPLS	SS-04	SWBF0026-031621	10551370006	2021-03-16	FG	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	
10551370	PACE_MPLS	SS-06A	SWBF0023-031621	10551370003	2021-03-16	FG	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	
10551370	PACE_MPLS	SS-06G	SWBF0022-031621	10551370002	2021-03-16	FG	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0028-031621	10551370008	2021-03-16	FG-N	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	
10551370	PACE_MPLS	SS-01.35	SWBF0027-031621	10551370007	2021-03-16	FG	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	
10551370	PACE_MPLS	SS-01	SWBF0029-031621	10551370009	2021-03-16	FG-D	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	FB	731719	Surface Water	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	2021-04-13	
10555588	PACE_LEN	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	715652	Surface Water	DOC	2021-04-20	METHOD	2021-04-20	SM 5310C	2021-05-11	
10555588	PACE_LEN	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	715652	Surface Water	DOC	2021-04-20	METHOD	2021-04-20	SM 5310C	2021-05-11	
10555588	PACE_LEN	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	715652	Surface Water	DOC	2021-04-20	METHOD	2021-04-20	SM 5310C	2021-05-11	
10555588	PACE_LEN	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	715652	Surface Water	DOC	2021-04-20	METHOD	2021-04-20	SM 5310C	2021-05-11	
10555588	PACE_LEN	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	715652	Surface Water	DOC	2021-04-20	METHOD	2021-04-20	SM 5310C	2021-05-11	
10555588	PACE_LEN	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	715652	Surface Water	DOC	2021-04-20	METHOD	2021-04-20	SM 5310C	2021-05-11	
10555588	PACE_LEN	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	716412	Surface Water	TKN	2021-04-23	METHOD	2021-04-27	EPA 351.2	2021-05-11	
10555588	PACE_LEN	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	716412	Surface Water	TKN	2021-04-23	METHOD	2021-04-27	EPA 351.2	2021-05-11	
10555588	PACE_LEN	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	716412	Surface Water	TKN	2021-04-23	METHOD	2021-04-27	EPA 351.2	2021-05-11	
10555588	PACE_LEN	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	716412	Surface Water	TKN	2021-04-23	METHOD	2021-04-27	EPA 351.2	2021-05-11	
10555588	PACE_LEN	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	716412	Surface Water	TKN	2021-04-23	METHOD	2021-04-27	EPA 351.2	2021-05-11	
10555588	PACE_LEN	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	716412	Surface Water	TKN	2021-04-23	METHOD	2021-04-27	EPA 351.2	2021-05-11	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	735769	Surface Water	NH3-N	2021-04-18	METHOD	2021-04-18	EPA 350.1	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	735769	Surface Water	NH3-N	2021-04-18	METHOD	2021-04-18	EPA 350.1	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	735769	Surface Water	NH3-N	2021-04-18	METHOD	2021-04-18	EPA 350.1	2021-05-11	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	735769	Surface Water	NH3-N	2021-04-18	METHOD	2021-04-18	EPA 350.1	2021-05-11	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	735769	Surface Water	NH3-N	2021-04-18	METHOD	2021-04-18	EPA 350.1	2021-05-11	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	735769	Surface Water	NH3-N	2021-04-18	METHOD	2021-04-18	EPA 350.1	2021-05-11	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	735974	Surface Water	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	735975	Surface Water	HgTR	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	735975	Surface Water	HgTR	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	735975	Surface Water	HgTR	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	735975	Surface Water	HgTR	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	735975	Surface Water	HgTR	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	735975	Surface Water	HgTR	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	735975	Surface Water	HgTR	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	735975	Surface Water	HgTR	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	735975	Surface Water	HgTR	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	AgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	AgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	AgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	AgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	AgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	AgDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	AgDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	AgDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	AgDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	AlDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	AlDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	AlDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	AlDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	AlDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	AlDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	AlDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	AlDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	AlDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	AsDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	AsDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	AsDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	AsDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	AsDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	AsDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	AsDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	AsDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	AsDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	CaDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	CaDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	CaDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	CaDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	CaDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	CaDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	CaDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	CaDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	CaDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	CdDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	CdDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	CdDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	CdDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	CdDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	CdDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	CdDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	CdDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	CdDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	CuDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	CuDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	CuDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	CuDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	CuDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	CuDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	CuDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	CuDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	CuDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	FeDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	FeDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	FeDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	FeDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	FeDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	FeDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	FeDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	FeDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	FeDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	Hard	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	Hard	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	Hard	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	Hard	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	Hard	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	Hard	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	Hard	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	Hard	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	Hard	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	MgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	MgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	MgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	MgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	MgDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	MgDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	MgDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	MgDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	MgDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	MoDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	MoDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	MoDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	MoDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	MoDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	MoDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	MoDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	MoDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	MoDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	PbDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	PbDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	PbDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	PbDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	PbDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	PbDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	PbDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	PbDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	PbDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736051	Surface Water	ZnDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736051	Surface Water	ZnDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736051	Surface Water	ZnDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736051	Surface Water	ZnDis	2021-04-22	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736051	Surface Water	ZnDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736051	Surface Water	ZnDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736051	Surface Water	ZnDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736051	Surface Water	ZnDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736051	Surface Water	ZnDis	2021-04-22	EPA 200.8	2021-04-29	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736052	Surface Water	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736052	Surface Water	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736052	Surface Water	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736052	Surface Water	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736052	Surface Water	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736052	Surface Water	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736052	Surface Water	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736052	Surface Water	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736052	Surface Water	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736182	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736182	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736182	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736182	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736182	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736182	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736182	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736184	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736184	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736184	Surface Water	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	2021-04-20	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736185	Surface Water	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	2021-04-20	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	736354	Surface Water	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	2021-04-27	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	737104	Surface Water	HgTR	2021-04-23	EPA 245.1	2021-04-26	EPA 245.1	2021-05-11	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	737263	Surface Water	P	2021-04-24	SM4500-P-B	2021-04-25	SM 4500-P-F	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	737263	Surface Water	P	2021-04-24	SM4500-P-B	2021-04-25	SM 4500-P-F	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	737263	Surface Water	P	2021-04-24	SM4500-P-B	2021-04-25	SM 4500-P-F	2021-05-11	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	737263	Surface Water	P	2021-04-24	SM4500-P-B	2021-04-25	SM 4500-P-F	2021-05-11	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	737263	Surface Water	P	2021-04-24	SM4500-P-B	2021-04-25	SM 4500-P-F	2021-05-11	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	737263	Surface Water	P	2021-04-24	SM4500-P-B	2021-04-25	SM 4500-P-F	2021-05-11	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	738043	Surface Water	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	2021-05-11	
10555588	PACE_MPLS	SS-05A	SWBF0036-041321	10555588006	2021-04-13	FG	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SS-05	SWBF0037-041321	10555588007	2021-04-13	FG	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SS-06A	SWBF0035-041321	10555588005	2021-04-13	FG	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0033-041321	10555588003	2021-04-13	FG-D	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SS-04	SWBF0038-041321	10555588008	2021-04-13	FG	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SS-01.35	SWBF0039-041321	10555588009	2021-04-13	FG	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SS-01	SWBF0040-041321	10555588010	2021-04-13	FG	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SS-06G	SWBF0032-041321	10555588002	2021-04-13	FG-N	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SS-07	SWBF0031-041321	10555588001	2021-04-13	FG	738369	Surface Water	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	2021-05-11	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	AgDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	AlDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	AsDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	CaDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	CdDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	CuDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	FeDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	Hard	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	MgDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	MoDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	PbDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	FB	739077	Surface Water	ZnDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	2021-10-10	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10561813	PACE_LEN	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	723468	Surface Water	TKN	2021-06-01	METHOD	2021-06-01	EPA 351.2	2021-06-16	
10561813	PACE_LEN	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	723468	Surface Water	TKN	2021-06-01	METHOD	2021-06-01	EPA 351.2	2021-06-16	
10561813	PACE_LEN	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	723468	Surface Water	TKN	2021-06-01	METHOD	2021-06-01	EPA 351.2	2021-06-16	
10561813	PACE_LEN	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	723468	Surface Water	TKN	2021-06-01	METHOD	2021-06-01	EPA 351.2	2021-06-16	
10561813	PACE_LEN	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	723468	Surface Water	TKN	2021-06-01	METHOD	2021-06-01	EPA 351.2	2021-06-16	
10561813	PACE_LEN	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	723468	Surface Water	TKN	2021-06-01	METHOD	2021-06-01	EPA 351.2	2021-06-16	
10561813	PACE_LEN	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	724145	Surface Water	DOC	2021-06-03	METHOD	2021-06-03	SM 5310C	2021-06-16	
10561813	PACE_LEN	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	724145	Surface Water	DOC	2021-06-03	METHOD	2021-06-03	SM 5310C	2021-06-16	
10561813	PACE_LEN	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	724145	Surface Water	DOC	2021-06-03	METHOD	2021-06-03	SM 5310C	2021-06-16	
10561813	PACE_LEN	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	724145	Surface Water	DOC	2021-06-03	METHOD	2021-06-03	SM 5310C	2021-06-16	
10561813	PACE_LEN	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	724145	Surface Water	DOC	2021-06-03	METHOD	2021-06-03	SM 5310C	2021-06-16	
10561813	PACE_LEN	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	724145	Surface Water	DOC	2021-06-03	METHOD	2021-06-03	SM 5310C	2021-06-16	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	744605	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	744605	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	744605	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	744605	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	744605	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	744605	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	744605	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	744605	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	744605	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	744606	Surface Water	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	2021-05-26	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	744608	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	744608	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	744608	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	744608	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	744608	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	744608	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	744608	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	744609	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	744609	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	744609	Surface Water	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745484	Surface Water	ALK_CaCO3	2021-05-29	METHOD	2021-05-29	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745715	Surface Water	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745715	Surface Water	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745715	Surface Water	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745715	Surface Water	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745715	Surface Water	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745715	Surface Water	FeTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745715	Surface Water	FeTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745715	Surface Water	FeTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745715	Surface Water	FeTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745715	Surface Water	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745715	Surface Water	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745715	Surface Water	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	AgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	AgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	AgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	AgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	AgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	AgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	AgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	AgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	AgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	AlDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	AlDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	AlDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	AlDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	AlDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	AlDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	AlDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	AlDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	AlDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	AsDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	AsDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	AsDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	AsDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	AsDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	AsDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	AsDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	AsDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	AsDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	CaDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	CaDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	CaDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	CaDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	CaDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	CaDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	CaDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	CaDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	CaDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	CdDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	CdDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	CdDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	CdDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	CdDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	CdDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	CdDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	CdDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	CdDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	CuDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	CuDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	CuDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	CuDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	CuDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	CuDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	CuDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	CuDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	CuDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	FeDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	FeDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	FeDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	FeDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	FeDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	FeDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	FeDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	FeDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	FeDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	Hard	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	Hard	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	Hard	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	Hard	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	Hard	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	Hard	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	Hard	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	Hard	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	Hard	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	MgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	MgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	MgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	MgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	MgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	MgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	MgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	MgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	MgDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	MoDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	MoDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	MoDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	MoDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	MoDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	MoDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	MoDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	MoDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	MoDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	PbDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	PbDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	PbDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	PbDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	PbDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	PbDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	PbDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	PbDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	PbDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745716	Surface Water	ZnDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	745716	Surface Water	ZnDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745716	Surface Water	ZnDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745716	Surface Water	ZnDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745716	Surface Water	ZnDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745716	Surface Water	ZnDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745716	Surface Water	ZnDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745716	Surface Water	ZnDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745716	Surface Water	ZnDis	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745818	Surface Water	P	2021-06-01	SM4500-P-B	2021-06-03	SM 4500-P-F	2021-06-16	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745818	Surface Water	P	2021-06-01	SM4500-P-B	2021-06-03	SM 4500-P-F	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745818	Surface Water	P	2021-06-01	SM4500-P-B	2021-06-03	SM 4500-P-F	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745818	Surface Water	P	2021-06-01	SM4500-P-B	2021-06-03	SM 4500-P-F	2021-06-16	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745818	Surface Water	P	2021-06-01	SM4500-P-B	2021-06-03	SM 4500-P-F	2021-06-16	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	745890	Surface Water	ALK_CaCO3	2021-06-01	METHOD	2021-06-01	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	745892	Surface Water	ALK_CaCO3	2021-06-02	METHOD	2021-06-02	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	745892	Surface Water	ALK_CaCO3	2021-06-02	METHOD	2021-06-02	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	745892	Surface Water	ALK_CaCO3	2021-06-02	METHOD	2021-06-02	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	745892	Surface Water	ALK_CaCO3	2021-06-02	METHOD	2021-06-02	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	745892	Surface Water	ALK_CaCO3	2021-06-02	METHOD	2021-06-02	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	745892	Surface Water	ALK_CaCO3	2021-06-02	METHOD	2021-06-02	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	745895	Surface Water	ALK_CaCO3	2021-06-02	METHOD	2021-06-02	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	745895	Surface Water	ALK_CaCO3	2021-06-02	METHOD	2021-06-02	SM 2320B	2021-06-02	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	746122	Surface Water	NH3-N	2021-06-02	METHOD	2021-06-02	EPA 350.1	2021-06-16	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	746122	Surface Water	NH3-N	2021-06-02	METHOD	2021-06-02	EPA 350.1	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	746122	Surface Water	NH3-N	2021-06-02	METHOD	2021-06-02	EPA 350.1	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	746122	Surface Water	NH3-N	2021-06-02	METHOD	2021-06-02	EPA 350.1	2021-06-16	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	746122	Surface Water	NH3-N	2021-06-02	METHOD	2021-06-02	EPA 350.1	2021-06-16	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	746179	Surface Water	NH3-N	2021-06-02	METHOD	2021-06-02	EPA 350.1	2021-06-16	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	746625	Surface Water	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	746687	Surface Water	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	747145	Surface Water	P	2021-06-07	SM4500-P-B	2021-06-08	SM 4500-P-F	2021-06-16	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	AlDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	AsDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	CaDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	CdDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	CuDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	FeDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	Hard	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	MgDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	MoDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	PbDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	747567	Surface Water	ZnDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	748681	Surface Water	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-04	SWBF0048-051921	10561813008	2021-05-19	FG	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-01	SWBF0050-051921	10561813009	2021-05-19	FG	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-01.35	SWBF0049-051921	10561813010	2021-05-19	FG	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	FB	748684	Surface Water	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	2021-06-16	
10561813	PACE_MPLS	SS-06A	SWBF0045-051921	10561813005	2021-05-19	FG	750378	Surface Water	FeTR	2021-06-21	EPA 200.8	2021-06-24	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05A	SWBF0046-051921	10561813006	2021-05-19	FG	750378	Surface Water	FeTR	2021-06-21	EPA 200.8	2021-06-24	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0043-051921	10561813003	2021-05-19	FG-D	750378	Surface Water	FeTR	2021-06-21	EPA 200.8	2021-06-24	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-06G	SWBF0042-051921	10561813002	2021-05-19	FG-N	750378	Surface Water	FeTR	2021-06-21	EPA 200.8	2021-06-24	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-05	SWBF0047-051921	10561813007	2021-05-19	FG	750378	Surface Water	FeTR	2021-06-21	EPA 200.8	2021-06-24	EPA 200.8	2021-11-15	
10561813	PACE_MPLS	SS-07	SWBF0041-051921	10561813001	2021-05-19	FG	750378	Surface Water	FeTR	2021-06-21	EPA 200.8	2021-06-24	EPA 200.8	2021-11-15	
10564925	PACE_LEN	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	726747	Surface Water	DOC	2021-06-16	METHOD	2021-06-16	SM 5310C	2021-07-07	
10564925	PACE_LEN	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	726747	Surface Water	DOC	2021-06-16	METHOD	2021-06-16	SM 5310C	2021-07-07	
10564925	PACE_LEN	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	726747	Surface Water	DOC	2021-06-16	METHOD	2021-06-16	SM 5310C	2021-07-07	
10564925	PACE_LEN	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	726747	Surface Water	DOC	2021-06-16	METHOD	2021-06-16	SM 5310C	2021-07-07	
10564925	PACE_LEN	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	726747	Surface Water	DOC	2021-06-16	METHOD	2021-06-16	SM 5310C	2021-07-07	
10564925	PACE_LEN	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	726747	Surface Water	DOC	2021-06-16	METHOD	2021-06-16	SM 5310C	2021-07-07	
10564925	PACE_LEN	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	728092	Surface Water	TKN	2021-06-23	METHOD	2021-06-23	EPA 351.2	2021-07-07	
10564925	PACE_LEN	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	728092	Surface Water	TKN	2021-06-23	METHOD	2021-06-23	EPA 351.2	2021-07-07	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10564925	PACE_LEN	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	728092	Surface Water	TKN	2021-06-23	METHOD	2021-06-23	EPA 351.2	2021-07-07	
10564925	PACE_LEN	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	728092	Surface Water	TKN	2021-06-23	METHOD	2021-06-23	EPA 351.2	2021-07-07	
10564925	PACE_LEN	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	728092	Surface Water	TKN	2021-06-23	METHOD	2021-06-23	EPA 351.2	2021-07-07	
10564925	PACE_LEN	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	728092	Surface Water	TKN	2021-06-23	METHOD	2021-06-23	EPA 351.2	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	749420	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	749420	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	749420	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	749420	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	749424	Surface Water	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	749425	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	749425	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	749425	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	749425	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	749425	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	749425	Surface Water	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	2021-07-07	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	749645	Surface Water	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-07	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	749742	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	749742	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	749742	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	749742	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	749743	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	749743	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	749743	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	749743	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	749743	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	749743	Surface Water	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	2021-06-16	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	749757	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	749757	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	749757	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	749757	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	749757	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	749760	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	749760	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	749760	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	749760	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	749760	Surface Water	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	2021-06-16	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750585	Surface Water	SO4	2021-06-20	METHOD	2021-06-20	ASTM D516-90-02	2021-07-07	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750585	Surface Water	SO4	2021-06-20	METHOD	2021-06-20	ASTM D516-90-02	2021-07-07	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750604	Surface Water	P	2021-06-20	SM4500-P-B	2021-06-21	SM 4500-P-F	2021-07-07	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750604	Surface Water	P	2021-06-20	SM4500-P-B	2021-06-21	SM 4500-P-F	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750604	Surface Water	P	2021-06-20	SM4500-P-B	2021-06-21	SM 4500-P-F	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750604	Surface Water	P	2021-06-20	SM4500-P-B	2021-06-21	SM 4500-P-F	2021-07-07	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750604	Surface Water	P	2021-06-20	SM4500-P-B	2021-06-21	SM 4500-P-F	2021-07-07	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750604	Surface Water	P	2021-06-20	SM4500-P-B	2021-06-21	SM 4500-P-F	2021-07-07	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750605	Surface Water	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750657	Surface Water	AgTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750657	Surface Water	AlTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750657	Surface Water	AsTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750657	Surface Water	CdTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750657	Surface Water	CuTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750657	Surface Water	FeTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750657	Surface Water	MoTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750657	Surface Water	PbTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750657	Surface Water	ZnTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-06	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	750784	Surface Water	NH3-N	2021-06-21	METHOD	2021-06-21	EPA 350.1	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	750784	Surface Water	NH3-N	2021-06-21	METHOD	2021-06-21	EPA 350.1	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	750784	Surface Water	NH3-N	2021-06-21	METHOD	2021-06-21	EPA 350.1	2021-07-07	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	750785	Surface Water	NH3-N	2021-06-21	METHOD	2021-06-21	EPA 350.1	2021-07-07	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	750785	Surface Water	NH3-N	2021-06-21	METHOD	2021-06-21	EPA 350.1	2021-07-07	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	750785	Surface Water	NH3-N	2021-06-21	METHOD	2021-06-21	EPA 350.1	2021-07-07	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	751522	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	751522	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SS-01	SWBF0056-060921	10564925002	2021-06-09	FG-N	751522	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	751522	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SS-01.35	SWBF0055-060921	10564925001	2021-06-09	FG	751522	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	751586	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	751586	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	751586	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	751586	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	751586	Surface Water	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	2021-06-23	
10564925	PACE_MPLS	SS-05A	SWBF0062-060921	10564925008	2021-06-09	FG	751763	Surface Water	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-07	
10564925	PACE_MPLS	SS-06A	SWBF0061-060921	10564925007	2021-06-09	FG	751763	Surface Water	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-07	
10564925	PACE_MPLS	SS-05	SWBF0063-060921	10564925009	2021-06-09	FG	751763	Surface Water	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-07	
10564925	PACE_MPLS	SS-04	SWBF0064-060921	10564925010	2021-06-09	FG	751763	Surface Water	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-07	
10564925	PACE_MPLS	SS-06G	SWBF0060-060921	10564925006	2021-06-09	FG	751763	Surface Water	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-07	
10564925	PACE_MPLS	SS-07	SWBF0059-060921	10564925005	2021-06-09	FG	751763	Surface Water	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-07	
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	FB	751763	Surface Water	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-07	
10564925	PACE_MPLS	SS-01	SWBF0057-060921	10564925003	2021-06-09	FG-D	751763	Surface Water	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-07	
10569157	PACE_LEN	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	731841	Surface Water	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-08-05	
10569157	PACE_LEN	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	731841	Surface Water	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-08-05	
10569157	PACE_LEN	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	731841	Surface Water	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-08-05	
10569157	PACE_LEN	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	731841	Surface Water	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-08-05	
10569157	PACE_LEN	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	731841	Surface Water	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-08-05	
10569157	PACE_LEN	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	731841	Surface Water	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-08-05	
10569157	PACE_LEN	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	733215	Surface Water	TKN	2021-07-21	METHOD	2021-07-21	EPA 351.2	2021-08-05	
10569157	PACE_LEN	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	733215	Surface Water	TKN	2021-07-21	METHOD	2021-07-21	EPA 351.2	2021-08-05	
10569157	PACE_LEN	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	733215	Surface Water	TKN	2021-07-21	METHOD	2021-07-21	EPA 351.2	2021-08-05	
10569157	PACE_LEN	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	733215	Surface Water	TKN	2021-07-21	METHOD	2021-07-21	EPA 351.2	2021-08-05	
10569157	PACE_LEN	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	733216	Surface Water	TKN	2021-07-21	METHOD	2021-07-21	EPA 351.2	2021-08-05	
10569157	PACE_LEN	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	733216	Surface Water	TKN	2021-07-21	METHOD	2021-07-21	EPA 351.2	2021-08-05	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	755301	Surface Water	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	755301	Surface Water	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	755301	Surface Water	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	755301	Surface Water	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	755301	Surface Water	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	755301	Surface Water	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	755301	Surface Water	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	755301	Surface Water	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	755301	Surface Water	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	756126	Surface Water	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	756473	Surface Water	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	2021-07-15	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	756475	Surface Water	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	2021-07-15	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	756742	Surface Water	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	2021-08-05	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757116	Surface Water	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	2021-07-22	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757191	Surface Water	NH3-N	2021-07-20	METHOD	2021-07-20	EPA 350.1	2021-08-05	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757191	Surface Water	NH3-N	2021-07-20	METHOD	2021-07-20	EPA 350.1	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757191	Surface Water	NH3-N	2021-07-20	METHOD	2021-07-20	EPA 350.1	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757191	Surface Water	NH3-N	2021-07-20	METHOD	2021-07-20	EPA 350.1	2021-08-05	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757191	Surface Water	NH3-N	2021-07-20	METHOD	2021-07-20	EPA 350.1	2021-08-05	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757191	Surface Water	NH3-N	2021-07-20	METHOD	2021-07-20	EPA 350.1	2021-08-05	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757196	Surface Water	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-05	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757766	Surface Water	P	2021-07-21	SM4500-P-B	2021-07-22	SM 4500-P-F	2021-08-05	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757766	Surface Water	P	2021-07-21	SM4500-P-B	2021-07-22	SM 4500-P-F	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757766	Surface Water	P	2021-07-21	SM4500-P-B	2021-07-22	SM 4500-P-F	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757766	Surface Water	P	2021-07-21	SM4500-P-B	2021-07-22	SM 4500-P-F	2021-08-05	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757766	Surface Water	P	2021-07-21	SM4500-P-B	2021-07-22	SM 4500-P-F	2021-08-05	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757766	Surface Water	P	2021-07-21	SM4500-P-B	2021-07-22	SM 4500-P-F	2021-08-05	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	757802	Surface Water	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	2022-01-04	
10569157	PACE_MPLS	SS-07	SWBF0081-070821	10569157001	2021-07-08	FG	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	FB	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10569157	PACE_MPLS	SS-05A	SWBF0086-070821	10569157006	2021-07-08	FG	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10569157	PACE_MPLS	SS-06A	SWBF0085-070821	10569157005	2021-07-08	FG	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0083-070821	10569157003	2021-07-08	FG-D	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10569157	PACE_MPLS	SS-06G	SWBF0082-070821	10569157002	2021-07-08	FG-N	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10569157	PACE_MPLS	SS-01	SWBF0090-070821	10569157010	2021-07-08	FG	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10569157	PACE_MPLS	SS-01.35	SWBF0089-070821	10569157009	2021-07-08	FG	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10569157	PACE_MPLS	SS-04	SWBF0088-070821	10569157008	2021-07-08	FG	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10569157	PACE_MPLS	SS-05	SWBF0087-070821	10569157007	2021-07-08	FG	758164	Surface Water	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	2021-08-05	
10573218	PACE_LEN	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	738102	Surface Water	TKN	2021-08-16	METHOD	2021-08-17	EPA 351.2	2021-09-01	
10573218	PACE_LEN	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	738102	Surface Water	TKN	2021-08-16	METHOD	2021-08-17	EPA 351.2	2021-09-01	
10573218	PACE_LEN	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	738102	Surface Water	TKN	2021-08-16	METHOD	2021-08-17	EPA 351.2	2021-09-01	
10573218	PACE_LEN	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	738102	Surface Water	TKN	2021-08-16	METHOD	2021-08-17	EPA 351.2	2021-09-01	
10573218	PACE_LEN	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	738102	Surface Water	TKN	2021-08-16	METHOD	2021-08-17	EPA 351.2	2021-09-01	
10573218	PACE_LEN	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	738102	Surface Water	TKN	2021-08-16	METHOD	2021-08-17	EPA 351.2	2021-09-01	
10573218	PACE_LEN	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	738148	Surface Water	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-09-01	
10573218	PACE_LEN	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	738148	Surface Water	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-09-01	
10573218	PACE_LEN	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	738148	Surface Water	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-09-01	
10573218	PACE_LEN	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	738148	Surface Water	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-09-01	
10573218	PACE_LEN	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	738148	Surface Water	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-09-01	
10573218	PACE_LEN	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	738148	Surface Water	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-09-01	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	761844	Surface Water	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-09-01	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762296	Surface Water	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762298	Surface Water	AgTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762298	Surface Water	AlTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762298	Surface Water	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762298	Surface Water	CdTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762298	Surface Water	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762298	Surface Water	FeTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762298	Surface Water	MoTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762298	Surface Water	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-20	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762298	Surface Water	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-31	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762331	Surface Water	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	2021-08-11	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762333	Surface Water	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762333	Surface Water	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762333	Surface Water	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762333	Surface Water	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762333	Surface Water	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762333	Surface Water	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762333	Surface Water	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762333	Surface Water	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762333	Surface Water	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762416	Surface Water	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	762746	Surface Water	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	762870	Surface Water	TSS	2021-08-11	METHOD	2021-08-11	SM 2540D	2021-08-11	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	763545	Surface Water	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	763545	Surface Water	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-09-01	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	763545	Surface Water	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-09-01	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	763545	Surface Water	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-09-01	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	763546	Surface Water	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-09-01	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	763546	Surface Water	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-09-01	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	763956	Surface Water	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	2021-08-18	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	764023	Surface Water	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	764023	Surface Water	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	764023	Surface Water	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-09-01	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	764333	Surface Water	P	2021-08-18	SM4500-P-B	2021-08-19	SM 4500-P-F	2021-09-01	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	764333	Surface Water	P	2021-08-18	SM4500-P-B	2021-08-19	SM 4500-P-F	2021-09-01	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	764333	Surface Water	P	2021-08-18	SM4500-P-B	2021-08-19	SM 4500-P-F	2021-09-01	
10573218	PACE_MPLS	SS-01	SWBF0116-080421	10573218010	2021-08-04	FG	764346	Surface Water	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-01	
10573218	PACE_MPLS	SS-05	SWBF0113-080421	10573218007	2021-08-04	FG	764346	Surface Water	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-01	
10573218	PACE_MPLS	SS-04	SWBF0114-080421	10573218008	2021-08-04	FG	764346	Surface Water	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-01	
10573218	PACE_MPLS	SS-01.35	SWBF0115-080421	10573218009	2021-08-04	FG	764346	Surface Water	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-01	
10573218	PACE_MPLS	SS-06A	SWBF0111-080421	10573218005	2021-08-04	FG	764346	Surface Water	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-01	
10573218	PACE_MPLS	SS-05A	SWBF0112-080421	10573218006	2021-08-04	FG	764346	Surface Water	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-01	
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	FB	764346	Surface Water	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0109-080421	10573218003	2021-08-04	FG-D	764346	Surface Water	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-01	
10573218	PACE_MPLS	SS-06G	SWBF0108-080421	10573218002	2021-08-04	FG-N	764346	Surface Water	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-01	
10573218	PACE_MPLS	SS-07	SWBF0107-080421	10573218001	2021-08-04	FG	764346	Surface Water	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-01	
10577494	PACE_LEN	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	743558	Surface Water	DOC	2021-09-15	METHOD	2021-09-15	SM 5310C	2021-09-29	
10577494	PACE_LEN	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	744071	Surface Water	TKN	2021-09-17	METHOD	2021-09-20	EPA 351.2	2021-09-29	
10577494	PACE_LEN	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	744071	Surface Water	TKN	2021-09-17	METHOD	2021-09-20	EPA 351.2	2021-09-29	
10577494	PACE_LEN	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	744071	Surface Water	TKN	2021-09-17	METHOD	2021-09-20	EPA 351.2	2021-09-29	
10577494	PACE_LEN	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	744071	Surface Water	TKN	2021-09-17	METHOD	2021-09-20	EPA 351.2	2021-09-29	
10577494	PACE_LEN	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	744071	Surface Water	TKN	2021-09-17	METHOD	2021-09-20	EPA 351.2	2021-09-29	
10577494	PACE_LEN	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	744152	Surface Water	DOC	2021-09-18	METHOD	2021-09-18	SM 5310C	2021-09-29	
10577494	PACE_LEN	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	744152	Surface Water	DOC	2021-09-18	METHOD	2021-09-18	SM 5310C	2021-09-29	
10577494	PACE_LEN	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	744152	Surface Water	DOC	2021-09-18	METHOD	2021-09-18	SM 5310C	2021-09-29	
10577494	PACE_LEN	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	744152	Surface Water	DOC	2021-09-18	METHOD	2021-09-18	SM 5310C	2021-09-29	
10577494	PACE_LEN	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	744152	Surface Water	DOC	2021-09-18	METHOD	2021-09-18	SM 5310C	2021-09-29	
10577494	PACE_LEN	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	746151	Surface Water	TKN	2021-09-29	METHOD	2021-09-29	EPA 351.2	2021-09-29	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768272	Surface Water	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	2021-09-08	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768275	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768275	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768275	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768275	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768276	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768276	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768276	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768276	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768276	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768276	Surface Water	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	2021-09-08	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768647	Surface Water	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768648	Surface Water	AgTR	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768648	Surface Water	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768648	Surface Water	AsTR	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768648	Surface Water	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768648	Surface Water	CuTR	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768648	Surface Water	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768648	Surface Water	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768648	Surface Water	PbTR	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	768648	Surface Water	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	2022-02-28	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	769329	Surface Water	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	2021-09-29	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	769437	Surface Water	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	769961	Surface Water	P	2021-09-15	SM4500-P-B	2021-09-15	SM 4500-P-F	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	769961	Surface Water	P	2021-09-15	SM4500-P-B	2021-09-15	SM 4500-P-F	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	769961	Surface Water	P	2021-09-15	SM4500-P-B	2021-09-15	SM 4500-P-F	2021-09-29	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	769961	Surface Water	P	2021-09-15	SM4500-P-B	2021-09-15	SM 4500-P-F	2021-09-29	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	769963	Surface Water	P	2021-09-15	SM4500-P-B	2021-09-15	SM 4500-P-F	2021-09-29	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	769963	Surface Water	P	2021-09-15	SM4500-P-B	2021-09-15	SM 4500-P-F	2021-09-29	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	769987	Surface Water	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	2021-09-15	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	770040	Surface Water	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	2021-09-29	
10577494	PACE_MPLS	SS-06A	SWBF0137-090121	10577494005	2021-09-01	FG	770605	Surface Water	SO4	2021-09-16	METHOD	2021-09-16	ASTM D516-90-02	2021-09-29	
10577494	PACE_MPLS	SS-05A	SWBF0138-090121	10577494006	2021-09-01	FG	770605	Surface Water	SO4	2021-09-16	METHOD	2021-09-16	ASTM D516-90-02	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	770605	Surface Water	SO4	2021-09-16	METHOD	2021-09-16	ASTM D516-90-02	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	770605	Surface Water	SO4	2021-09-16	METHOD	2021-09-16	ASTM D516-90-02	2021-09-29	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	770618	Surface Water	SO4	2021-09-20	METHOD	2021-09-20	ASTM D516-90-02	2021-09-29	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	770618	Surface Water	SO4	2021-09-20	METHOD	2021-09-20	ASTM D516-90-02	2021-09-29	
10577494	PACE_MPLS	SS-04	SWBF0140-090121	10577494008	2021-09-01	FG	770618	Surface Water	SO4	2021-09-20	METHOD	2021-09-20	ASTM D516-90-02	2021-09-29	
10577494	PACE_MPLS	SS-05	SWBF0139-090121	10577494007	2021-09-01	FG	770618	Surface Water	SO4	2021-09-20	METHOD	2021-09-20	ASTM D516-90-02	2021-09-29	
10577494	PACE_MPLS	SS-01.35	SWBF0141-090121	10577494009	2021-09-01	FG	771079	Surface Water	NH3-N	2021-09-19	METHOD	2021-09-19	EPA 350.1	2021-09-29	
10577494	PACE_MPLS	SS-01	SWBF0142-090121	10577494010	2021-09-01	FG	771079	Surface Water	NH3-N	2021-09-19	METHOD	2021-09-19	EPA 350.1	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0134-090121	10577494002	2021-09-01	FG-N	771079	Surface Water	NH3-N	2021-09-19	METHOD	2021-09-19	EPA 350.1	2021-09-29	
10577494	PACE_MPLS	SS-06G	SWBF0135-090121	10577494003	2021-09-01	FG-D	771079	Surface Water	NH3-N	2021-09-19	METHOD	2021-09-19	EPA 350.1	2021-09-29	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	771079	Surface Water	NH3-N	2021-09-19	METHOD	2021-09-19	EPA 350.1	2021-09-29	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	771079	Surface Water	NH3-N	2021-09-19	METHOD	2021-09-19	EPA 350.1	2021-09-29	
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	FB	771229	Surface Water	SO4	2021-09-20	METHOD	2021-09-20	ASTM D516-90-02	2021-09-29	
10577494	PACE_MPLS	SS-07	SWBF0133-090121	10577494001	2021-09-01	FG	786625	Surface Water	SO4	2021-12-01	METHOD	2021-12-01	ASTM D516-90-02	2021-09-29	HT
10584279	PACE_LEN	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	752261	Surface Water	TKN	2021-10-27	METHOD	2021-10-28	EPA 351.2	2021-11-15	
10584279	PACE_LEN	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	752261	Surface Water	TKN	2021-10-27	METHOD	2021-10-28	EPA 351.2	2021-11-15	
10584279	PACE_LEN	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	752261	Surface Water	TKN	2021-10-27	METHOD	2021-10-28	EPA 351.2	2021-11-15	
10584279	PACE_LEN	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	752261	Surface Water	TKN	2021-10-27	METHOD	2021-10-28	EPA 351.2	2021-11-15	
10584279	PACE_LEN	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	752262	Surface Water	TKN	2021-10-27	METHOD	2021-10-28	EPA 351.2	2021-11-15	
10584279	PACE_LEN	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	752262	Surface Water	TKN	2021-10-27	METHOD	2021-10-28	EPA 351.2	2021-11-15	
10584279	PACE_LEN	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	752274	Surface Water	DOC	2021-10-27	METHOD	2021-10-27	SM 5310C	2021-11-15	
10584279	PACE_LEN	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	752274	Surface Water	DOC	2021-10-27	METHOD	2021-10-27	SM 5310C	2021-11-15	
10584279	PACE_LEN	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	752274	Surface Water	DOC	2021-10-27	METHOD	2021-10-27	SM 5310C	2021-11-15	
10584279	PACE_LEN	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	752274	Surface Water	DOC	2021-10-27	METHOD	2021-10-27	SM 5310C	2021-11-15	
10584279	PACE_LEN	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	752274	Surface Water	DOC	2021-10-27	METHOD	2021-10-27	SM 5310C	2021-11-15	
10584279	PACE_LEN	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	752274	Surface Water	DOC	2021-10-27	METHOD	2021-10-27	SM 5310C	2021-11-15	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779044	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779044	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779044	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779044	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779044	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779044	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779045	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779045	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779045	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779045	Surface Water	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	2021-10-25	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779048	Surface Water	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	2021-10-25	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779085	Surface Water	NH3-N	2021-10-25	METHOD	2021-10-25	EPA 350.1	2021-11-15	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779085	Surface Water	NH3-N	2021-10-25	METHOD	2021-10-25	EPA 350.1	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779085	Surface Water	NH3-N	2021-10-25	METHOD	2021-10-25	EPA 350.1	2021-11-15	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779085	Surface Water	NH3-N	2021-10-25	METHOD	2021-10-25	EPA 350.1	2021-11-15	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779085	Surface Water	NH3-N	2021-10-25	METHOD	2021-10-25	EPA 350.1	2021-11-15	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779085	Surface Water	NH3-N	2021-10-25	METHOD	2021-10-25	EPA 350.1	2021-11-15	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779787	Surface Water	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779788	Surface Water	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	2021-11-15	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	MoDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-09	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779812	Surface Water	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779897	Surface Water	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	2021-11-15	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	779906	Surface Water	P	2021-10-28	SM4500-P-B	2021-11-03	SM 4500-P-F	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	779906	Surface Water	P	2021-10-28	SM4500-P-B	2021-11-03	SM 4500-P-F	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	779906	Surface Water	P	2021-10-28	SM4500-P-B	2021-11-03	SM 4500-P-F	2021-11-15	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	779907	Surface Water	P	2021-10-28	SM4500-P-B	2021-11-03	SM 4500-P-F	2021-11-15	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	779907	Surface Water	P	2021-10-28	SM4500-P-B	2021-11-03	SM 4500-P-F	2021-11-15	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	779907	Surface Water	P	2021-10-28	SM4500-P-B	2021-11-03	SM 4500-P-F	2021-11-15	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780047	Surface Water	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780047	Surface Water	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780047	Surface Water	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780047	Surface Water	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780047	Surface Water	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780047	Surface Water	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780047	Surface Water	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780047	Surface Water	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780047	Surface Water	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	2022-04-16	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	780549	Surface Water	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	2021-11-01	
10584279	PACE_MPLS	SS-01	SWBF0172-101821	10584279010	2021-10-18	FG	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	
10584279	PACE_MPLS	SS-01.35	SWBF0171-101821	10584279009	2021-10-18	FG	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	
10584279	PACE_MPLS	SS-04	SWBF0170-101821	10584279008	2021-10-18	FG	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	
10584279	PACE_MPLS	SS-05	SWBF0169-101821	10584279007	2021-10-18	FG	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	
10584279	PACE_MPLS	SS-05A	SWBF0168-101821	10584279006	2021-10-18	FG	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	
10584279	PACE_MPLS	SS-06A	SWBF0167-101821	10584279005	2021-10-18	FG	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	FB	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0165-101821	10584279003	2021-10-18	FG-D	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	
10584279	PACE_MPLS	SS-06G	SWBF0164-101821	10584279002	2021-10-18	FG-N	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	
10584279	PACE_MPLS	SS-07	SWBF0163-101821	10584279001	2021-10-18	FG	781568	Surface Water	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	2021-11-15	
10585797	PACE_LEN	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	755862	Surface Water	TKN	2021-11-12	METHOD	2021-11-15	EPA 351.2	2021-11-29	
10585797	PACE_LEN	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	755862	Surface Water	TKN	2021-11-12	METHOD	2021-11-15	EPA 351.2	2021-11-29	
10585797	PACE_LEN	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	755862	Surface Water	TKN	2021-11-12	METHOD	2021-11-15	EPA 351.2	2021-11-29	
10585797	PACE_LEN	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	755862	Surface Water	TKN	2021-11-12	METHOD	2021-11-15	EPA 351.2	2021-11-29	
10585797	PACE_LEN	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	755862	Surface Water	TKN	2021-11-12	METHOD	2021-11-15	EPA 351.2	2021-11-29	
10585797	PACE_LEN	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	755862	Surface Water	TKN	2021-11-12	METHOD	2021-11-15	EPA 351.2	2021-11-29	
10585797	PACE_LEN	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	756224	Surface Water	DOC	2021-11-15	METHOD	2021-11-15	SM 5310C	2021-11-29	
10585797	PACE_LEN	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	756224	Surface Water	DOC	2021-11-15	METHOD	2021-11-15	SM 5310C	2021-11-29	
10585797	PACE_LEN	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	756224	Surface Water	DOC	2021-11-15	METHOD	2021-11-15	SM 5310C	2021-11-29	
10585797	PACE_LEN	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	756224	Surface Water	DOC	2021-11-15	METHOD	2021-11-15	SM 5310C	2021-11-29	
10585797	PACE_LEN	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	756224	Surface Water	DOC	2021-11-15	METHOD	2021-11-15	SM 5310C	2021-11-29	
10585797	PACE_LEN	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	756224	Surface Water	DOC	2021-11-15	METHOD	2021-11-15	SM 5310C	2021-11-29	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	781934	Surface Water	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	2021-11-08	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	781936	Surface Water	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	2021-11-08	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782195	Surface Water	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782197	Surface Water	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	2021-11-29	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	AgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	AlDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	AsDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	CdDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	CuDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	FeDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	Hard	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	MgDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	MoDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	PbDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782363	Surface Water	ZnDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782364	Surface Water	AgTR	2021-11-11	EPA 200.8	2021-11-12	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782364	Surface Water	AgTR	2021-11-11	EPA 200.8	2021-11-12	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782364	Surface Water	AgTR	2021-11-11	EPA 200.8	2021-11-12	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782364	Surface Water	AgTR	2021-11-11	EPA 200.8	2021-11-12	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782364	Surface Water	AgTR	2021-11-11	EPA 200.8	2021-11-12	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782364	Surface Water	AgTR	2021-11-11	EPA 200.8	2021-11-12	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782364	Surface Water	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782364	Surface Water	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782364	Surface Water	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782364	Surface Water	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782364	Surface Water	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782364	Surface Water	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782364	Surface Water	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782364	Surface Water	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	2022-04-30	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782663	Surface Water	NH3-N	2021-11-10	METHOD	2021-11-10	EPA 350.1	2021-11-29	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782663	Surface Water	NH3-N	2021-11-10	METHOD	2021-11-10	EPA 350.1	2021-11-29	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782663	Surface Water	NH3-N	2021-11-10	METHOD	2021-11-10	EPA 350.1	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782663	Surface Water	NH3-N	2021-11-10	METHOD	2021-11-10	EPA 350.1	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782663	Surface Water	NH3-N	2021-11-10	METHOD	2021-11-10	EPA 350.1	2021-11-29	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782663	Surface Water	NH3-N	2021-11-10	METHOD	2021-11-10	EPA 350.1	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	782782	Surface Water	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	2021-11-29	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	783048	Surface Water	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	2021-11-29	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SS-06A	SWBF0177-110121	10585797005	2021-11-01	FG	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SS-04	SWBF0180-110121	10585797008	2021-11-01	FG	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SS-05	SWBF0179-110121	10585797007	2021-11-01	FG	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SS-05A	SWBF0178-110121	10585797006	2021-11-01	FG	783417	Surface Water	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	2021-11-15	
10585797	PACE_MPLS	SS-01	SWBF0182-110121	10585797010	2021-11-01	FG	783578	Surface Water	P	2021-11-14	SM4500-P-B	2021-11-15	SM 4500-P-F	2021-11-29	
10585797	PACE_MPLS	SS-01.35	SWBF0181-110121	10585797009	2021-11-01	FG	783578	Surface Water	P	2021-11-14	SM4500-P-B	2021-11-15	SM 4500-P-F	2021-11-29	
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	FB	783578	Surface Water	P	2021-11-14	SM4500-P-B	2021-11-15	SM 4500-P-F	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0175-110121	10585797003	2021-11-01	FG-D	783578	Surface Water	P	2021-11-14	SM4500-P-B	2021-11-15	SM 4500-P-F	2021-11-29	
10585797	PACE_MPLS	SS-06G	SWBF0174-110121	10585797002	2021-11-01	FG-N	783578	Surface Water	P	2021-11-14	SM4500-P-B	2021-11-15	SM 4500-P-F	2021-11-29	
10585797	PACE_MPLS	SS-07	SWBF0173-110121	10585797001	2021-11-01	FG	783578	Surface Water	P	2021-11-14	SM4500-P-B	2021-11-15	SM 4500-P-F	2021-11-29	
10590953	PACE_LEN	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	762095	Surface Water	DOC	2021-12-16	METHOD	2021-12-16	SM 5310C	2022-01-05	
10590953	PACE_LEN	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	762095	Surface Water	DOC	2021-12-16	METHOD	2021-12-16	SM 5310C	2022-01-05	
10590953	PACE_LEN	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	762095	Surface Water	DOC	2021-12-16	METHOD	2021-12-16	SM 5310C	2022-01-05	
10590953	PACE_LEN	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	762095	Surface Water	DOC	2021-12-16	METHOD	2021-12-16	SM 5310C	2022-01-05	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10590953	PACE_LEN	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	762095	Surface Water	DOC	2021-12-16	METHOD	2021-12-16	SM 5310C	2022-01-05	
10590953	PACE_LEN	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	762095	Surface Water	DOC	2021-12-16	METHOD	2021-12-16	SM 5310C	2022-01-05	
10590953	PACE_LEN	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	763092	Surface Water	TKN	2021-12-21	METHOD	2021-12-23	EPA 351.2	2022-01-05	
10590953	PACE_LEN	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	763092	Surface Water	TKN	2021-12-21	METHOD	2021-12-23	EPA 351.2	2022-01-05	
10590953	PACE_LEN	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	763092	Surface Water	TKN	2021-12-21	METHOD	2021-12-23	EPA 351.2	2022-01-05	
10590953	PACE_LEN	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	763092	Surface Water	TKN	2021-12-21	METHOD	2021-12-23	EPA 351.2	2022-01-05	
10590953	PACE_LEN	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	763092	Surface Water	TKN	2021-12-21	METHOD	2021-12-23	EPA 351.2	2022-01-05	
10590953	PACE_LEN	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	763368	Surface Water	TKN	2021-12-22	METHOD	2021-12-23	EPA 351.2	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788624	Surface Water	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788624	Surface Water	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788624	Surface Water	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788624	Surface Water	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788624	Surface Water	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788624	Surface Water	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788624	Surface Water	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788624	Surface Water	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788624	Surface Water	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	AgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	AgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	AgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	AgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	AgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	AgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	AgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	AgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	AgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	AlDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	AlDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	AlDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	AlDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	AlDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	AlDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	AlDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	AlDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	AlDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	AsDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	AsDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	AsDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	AsDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	AsDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	AsDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	AsDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	AsDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	AsDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	CaDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	CaDis	2021-12-14	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	CaDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	CaDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	CaDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	CaDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	CaDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	CaDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	CaDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	CdDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	CdDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	CdDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	CdDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	CdDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	CdDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	CdDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	CdDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	CdDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	CuDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	CuDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	CuDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	CuDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	CuDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	CuDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	CuDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	CuDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	CuDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	FeDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	FeDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	FeDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	FeDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	FeDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	FeDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	FeDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	FeDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	FeDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	Hard	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	Hard	2021-12-14	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	Hard	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	Hard	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	Hard	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	Hard	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	Hard	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	Hard	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	Hard	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	MgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	MgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	MgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	MgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	MgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	MgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	MgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	MgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	MgDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	MoDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	MoDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	MoDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	MoDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	MoDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	MoDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	MoDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	MoDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	MoDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	PbDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	PbDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	PbDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	PbDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	PbDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	PbDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	PbDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	PbDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	PbDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788628	Surface Water	ZnDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788628	Surface Water	ZnDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788628	Surface Water	ZnDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788628	Surface Water	ZnDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788628	Surface Water	ZnDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788628	Surface Water	ZnDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788628	Surface Water	ZnDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788628	Surface Water	ZnDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788628	Surface Water	ZnDis	2021-12-14	EPA 200.8	2021-12-21	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788694	Surface Water	NH3-N	2021-12-12	METHOD	2021-12-12	EPA 350.1	2022-01-05	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788694	Surface Water	NH3-N	2021-12-12	METHOD	2021-12-12	EPA 350.1	2022-01-05	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788694	Surface Water	NH3-N	2021-12-12	METHOD	2021-12-12	EPA 350.1	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788694	Surface Water	NH3-N	2021-12-12	METHOD	2021-12-12	EPA 350.1	2022-01-05	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788694	Surface Water	NH3-N	2021-12-12	METHOD	2021-12-12	EPA 350.1	2022-01-05	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788694	Surface Water	NH3-N	2021-12-12	METHOD	2021-12-12	EPA 350.1	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788884	Surface Water	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	788929	Surface Water	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	2021-12-15	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	789271	Surface Water	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	789285	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	789285	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	789285	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	789286	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	789286	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	789286	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	789286	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	789286	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	789286	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	

Highlighted cells indicate field precision outside of criteria

Table A5b. BPSOU 2021 Normal Flow Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Matrix	Param	PrepDate	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	789316	Surface Water	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	2022-01-05	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	789408	Surface Water	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	2021-12-15	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	790000	Surface Water	P	2021-12-19	SM4500-P-B	2021-12-20	SM 4500-P-F	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	790000	Surface Water	P	2021-12-19	SM4500-P-B	2021-12-20	SM 4500-P-F	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	790000	Surface Water	P	2021-12-19	SM4500-P-B	2021-12-20	SM 4500-P-F	2022-01-05	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790000	Surface Water	P	2021-12-19	SM4500-P-B	2021-12-20	SM 4500-P-F	2022-01-05	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	790000	Surface Water	P	2021-12-19	SM4500-P-B	2021-12-20	SM 4500-P-F	2022-01-05	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	790000	Surface Water	P	2021-12-19	SM4500-P-B	2021-12-20	SM 4500-P-F	2022-01-05	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	790407	Surface Water	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	2021-12-22	
10590953	PACE_MPLS	SS-07	SWBF0183-120821	10590953001	2021-12-08	FG	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0184-120821	10590953002	2021-12-08	FG-N	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SS-06G	SWBF0185-120821	10590953003	2021-12-08	FG-D	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SS-04	SWBF0190-120821	10590953008	2021-12-08	FG	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SS-05	SWBF0189-120821	10590953007	2021-12-08	FG	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SS-06A	SWBF0187-120821	10590953005	2021-12-08	FG	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SS-05A	SWBF0188-120821	10590953006	2021-12-08	FG	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SS-01	SWBF0192-120821	10590953010	2021-12-08	FG	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SS-01.35	SWBF0191-120821	10590953009	2021-12-08	FG	790585	Surface Water	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	2022-01-05	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	AgDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	AlDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	AsDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	CaDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	CdDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	CuDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	FeDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	Hard	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	MgDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	MoDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	PbDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	FB	790609	Surface Water	ZnDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	2022-06-06	

Highlighted cells indicate field precision outside of criteria

Table A5c. BPSOU 2021 Normal Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Batch ID	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Unit	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10545858	PACE_LEN	SWQC	SWBF0004-012121	10545858004	2021-01-21	702970	DOC	2021-02-05	METHOD	2021-02-05	SM 5310C	mg/L	.59	.3	1	J		
10545858	PACE_LEN	SWQC	SWBF0004-012121	10545858004	2021-01-21	703007	TKN	2021-02-08	METHOD	2021-02-08	EPA 351.2	mg/L	.48	.48	.5	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	AgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.000077	.000077	.0005	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	AlDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.0071	.0071	.02	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	AsDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	CaDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.038	.015	.04	J		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	CdDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	CuDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.0046	.00043	.001			
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	FeDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.012	.012	.05	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	Hard	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.11	.054	.14	J		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	MgDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.0047	.0039	.01	J		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	MoDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.00011	.000081	.0005	J		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	PbDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.000043	.000043	.0001	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721906	ZnDis	2021-01-26	METHOD	2021-01-29	EPA 200.8	mg/L	.0023	.0023	.005	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721909	AgTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	mg/L	.000077	.000077	.0005	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721909	AlTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	mg/L	.0071	.0071	.02	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721909	AsTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721909	CdTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721909	CuTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	mg/L	.00043	.00043	.001	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721909	FeTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	mg/L	.012	.012	.05	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721909	MoTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	mg/L	.000081	.000081	.0005	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721909	PbTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	mg/L	.0028	.000043	.0001			
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	721909	ZnTR	2021-01-26	METHOD	2021-01-28	EPA 200.8	mg/L	.0023	.0023	.005	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	722097	SO4	2021-01-26	METHOD	2021-01-26	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	722205	HgTR	2021-01-26	METHOD	2021-01-28	EPA 245.1	mg/L	.0000045	.0000045	.00001	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	722461	ALK_CaCO3	2021-01-27	METHOD	2021-01-27	SM 2320B	mg/L	2	2	5	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	722551	NH3-N	2021-01-27	METHOD	2021-01-27	EPA 350.1	mg/L	.025	.025	.1	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	722565	TDS	2021-01-28	METHOD	2021-01-28	SM 2540C	mg/L	5	5	10	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	722569	TSS	2021-01-28	METHOD	2021-01-28	SM 2540D	mg/L	5	5	10	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	722636	NO3/NO2-N	2021-01-28	METHOD	2021-01-28	SM 4500-NO3-H	mg/L	.078	.078	.2	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	722746	HgDis	2021-01-28	METHOD	2021-01-29	EPA 245.1	mg/L	.0000045	.0000045	.00001	U		
10545858	PACE_MPLS	SWQC	SWBF0004-012121	10545858004	2021-01-21	723711	P	2021-02-03	SM4500-P-B	2021-02-04	SM 4500-P-F	mg/L	.028	.028	.1	U		
10550036	PACE_MTJ	SWQC	SWBF0014-022221	10550036004	2021-02-22	163561	DOC	2021-03-18	METHOD	2021-03-18	SM 5310B	mg/L	.363	.106	1	J,B	UJ	IP,MB
10550036	PACE_LEN	SWQC	SWBF0014-022221	10550036004	2021-02-22	708790	TKN	2021-03-16	METHOD	2021-03-17	EPA 351.2	mg/L	.48	.48	.5	U	UJ	IP
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728178	ALK_CaCO3	2021-03-08	METHOD	2021-03-08	SM 2320B	mg/L	2	2	5	U	UJ	IP
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728302	AgTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	mg/L	.000077	.000077	.0005	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728302	AlTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	mg/L	.0098	.0071	.02	J		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728302	AsTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728302	CdTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728302	CuTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	mg/L	.00043	.00043	.001	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728302	FeTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	mg/L	.012	.012	.05	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728302	MoTR	2021-03-10	METHOD	2021-03-16	EPA 200.8	mg/L	.000081	.000081	.0005	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728302	PbTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	mg/L	.000065	.000043	.0001	J		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728302	ZnTR	2021-03-10	METHOD	2021-03-17	EPA 200.8	mg/L	.0023	.0023	.005	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728719	NH3-N	2021-03-10	METHOD	2021-03-10	EPA 350.1	mg/L	.025	.025	.1	U	UJ	IP
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728834	HgTR	2021-03-17	METHOD	2021-03-18	EPA 245.1	mg/L	.000005	.0000045	.00001	J		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	728959	SO4	2021-03-11	METHOD	2021-03-11	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U	UJ	IP
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	729344	P	2021-03-13	SM4500-P-B	2021-03-14	SM 4500-P-F	mg/L	.028	.028	.1	U	UJ	IP

Highlighted cells indicate field precision outside of criteria

Table A5c. BPSOU 2021 Normal Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Batch ID	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Unit	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	729448	NO3/NO2-N	2021-03-15	METHOD	2021-03-15	SM 4500-NO3-H	mg/L	.078	.078	.2	U	UJ	IP
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	729771	HgDis	2021-03-17	METHOD	2021-03-18	EPA 245.1	mg/L	.0000045	.0000045	.00001	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	AgDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.000082	.000077	.0005	J		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	AlDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.0071	.0071	.02	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	AsDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	CaDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.027	.015	.04	J		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	CdDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	CuDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.00043	.00043	.001	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	FeDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.012	.012	.05	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	Hard	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.091	.054	.14	J		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	MgDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.0057	.0039	.01	J		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	MoDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.00014	.000081	.0005	J		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	PbDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.000043	.000043	.0001	U		
10550036	PACE_MPLS	SWQC	SWBF0014-022221	10550036004	2021-02-22	730869	ZnDis	2021-03-24	METHOD	2021-03-24	EPA 200.8	mg/L	.0023	.0023	.005	U		
10551370	PACE_LEN	SWQC	SWBF0030-031621	10551370010	2021-03-16	710002	DOC	2021-03-23	METHOD	2021-03-23	SM 5310C	mg/L	.94	.3	1	J,B		
10551370	PACE_LEN	SWQC	SWBF0030-031621	10551370010	2021-03-16	710709	TKN	2021-03-26	METHOD	2021-03-26	EPA 351.2	mg/L	.48	.48	.5	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	AgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.000077	.000077	.0005	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	AlDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.0071	.0071	.02	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	AsDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	CaDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.015	.015	.04	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	CdDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	CuDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.00043	.00043	.001	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	FeDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.012	.012	.05	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	Hard	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.054	.054	.14	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	MgDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.0039	.0039	.01	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	MoDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.000081	.000081	.0005	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	PbDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.000043	.000043	.0001	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730311	ZnDis	2021-03-22	METHOD	2021-03-29	EPA 200.8	mg/L	.0023	.0023	.005	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730313	AgTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	mg/L	.000077	.000077	.0005	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730313	AlTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	mg/L	.0071	.0071	.02	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730313	AsTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730313	CdTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730313	CuTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	mg/L	.00043	.00043	.001	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730313	FeTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	mg/L	.012	.012	.05	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730313	MoTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	mg/L	.000081	.000081	.0005	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730313	PbTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	mg/L	.000071	.000043	.0001	J		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730313	ZnTR	2021-03-23	METHOD	2021-03-30	EPA 200.8	mg/L	.0023	.0023	.005	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730496	NH3-N	2021-03-21	METHOD	2021-03-21	EPA 350.1	mg/L	.03	.03	.1	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730672	HgTR	2021-03-22	METHOD	2021-03-23	EPA 245.1	mg/L	.0000045	.0000045	.00001	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730689	P	2021-03-22	SM4500-P-B	2021-03-23	SM 4500-P-F	mg/L	.028	.028	.1	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730771	ALK_CaCO3	2021-03-23	METHOD	2021-03-23	SM 2320B	mg/L	2	2	5	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730852	HgDis	2021-03-23	METHOD	2021-03-24	EPA 245.1	mg/L	.0000045	.0000045	.00001	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730928	TDS	2021-03-23	METHOD	2021-03-23	SM 2540C	mg/L	5	5	10	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	730930	TSS	2021-03-23	METHOD	2021-03-23	SM 2540D	mg/L	5	5	10	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	731045	SO4	2021-03-24	METHOD	2021-03-24	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10551370	PACE_MPLS	SWQC	SWBF0030-031621	10551370010	2021-03-16	731719	NO3/NO2-N	2021-03-29	METHOD	2021-03-29	SM 4500-NO3-H	mg/L	.078	.078	.2	U		
10555588	PACE_LEN	SWQC	SWBF0034-041321	10555588004	2021-04-13	715652	DOC	2021-04-20	METHOD	2021-04-20	SM 5310C	mg/L	.36	.3	1	J		
10555588	PACE_LEN	SWQC	SWBF0034-041321	10555588004	2021-04-13	716412	TKN	2021-04-23	METHOD	2021-04-27	EPA 351.2	mg/L	.48	.48	.5	U		

Highlighted cells indicate field precision outside of criteria

Table A5c. BPSOU 2021 Normal Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Batch ID	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Unit	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	735769	NH3-N	2021-04-18	METHOD	2021-04-18	EPA 350.1	mg/L	.03	.03	.1	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	735974	HgDis	2021-04-19	EPA 245.1	2021-04-20	EPA 245.1	mg/L	.0000045	.0000045	.00001	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736052	AgTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	mg/L	.000077	.000077	.0005	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736052	AlTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	mg/L	.0071	.0071	.02	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736052	AsTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736052	CdTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736052	CuTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	mg/L	.00043	.00043	.001	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736052	FeTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	mg/L	.038	.012	.05	J		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736052	MoTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	mg/L	.00023	.000081	.0005	J		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736052	PbTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	mg/L	.000052	.000043	.0001	J		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736052	ZnTR	2021-04-21	EPA 200.8	2021-04-28	EPA 200.8	mg/L	.0023	.0023	.005	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736182	TDS	2021-04-20	METHOD	2021-04-20	SM 2540C	mg/L	11	5	10			
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736185	TSS	2021-04-20	METHOD	2021-04-20	SM 2540D	mg/L	5	5	10	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	736354	ALK_CaCO3	2021-04-21	METHOD	2021-04-21	SM 2320B	mg/L	2	2	5	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	737104	HgTR	2021-04-23	EPA 245.1	2021-04-26	EPA 245.1	mg/L	.0000045	.0000045	.00001	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	737263	P	2021-04-24	SM4500-P-B	2021-04-25	SM 4500-P-F	mg/L	.05	.05	.1	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	738043	NO3/NO2-N	2021-04-28	METHOD	2021-04-28	SM 4500-NO3-H	mg/L	.078	.078	.2	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	738369	SO4	2021-04-29	METHOD	2021-04-29	ASTM D516-90-02	mg/L	1.2	1.2	2.5	J		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	AgDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.0001	.000077	.0005	J		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	AlDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.018	.0071	.02	J		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	AsDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	CaDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.015	.015	.04	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	CdDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	CuDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.00043	.00043	.001	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	FeDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.012	.012	.05	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	Hard	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.054	.054	.14	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	MgDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.004	.0039	.01	J		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	MoDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.00013	.000081	.0005	J		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	PbDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.000043	.000043	.0001	U		
10555588	PACE_MPLS	SWQC	SWBF0034-041321	10555588004	2021-04-13	739077	ZnDis	2021-05-03	EPA 200.8	2021-05-04	EPA 200.8	mg/L	.0023	.0023	.005	U		
10561813	PACE_LEN	SWQC	SWBF0044-051921	10561813004	2021-05-19	723468	TKN	2021-06-01	METHOD	2021-06-01	EPA 351.2	mg/L	.48	.48	.5	U	UJ	IP
10561813	PACE_LEN	SWQC	SWBF0044-051921	10561813004	2021-05-19	724145	DOC	2021-06-03	METHOD	2021-06-03	SM 5310C	mg/L	.3	.3	1	U	UJ	IP
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	744605	TDS	2021-05-26	METHOD	2021-05-26	SM 2540C	mg/L	8	5	10	J	J-	IP
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	744608	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	mg/L	5	5	10	U	UJ	IP
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745715	AgTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	mg/L	.000077	.000077	.0005	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745715	AlTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	mg/L	.0071	.0071	.02	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745715	AsTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745715	CdTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745715	CuTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	mg/L	.00043	.00043	.001	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745715	FeTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	mg/L	.012	.012	.05	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745715	MoTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	mg/L	.000081	.000081	.0005	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745715	PbTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	mg/L	.000058	.000043	.0001	J		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745715	ZnTR	2021-06-02	EPA 200.8	2021-06-08	EPA 200.8	mg/L	.0023	.0023	.005	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745818	P	2021-06-01	SM4500-P-B	2021-06-03	SM 4500-P-F	mg/L	.05	.05	.1	U	UJ	IP
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	745892	ALK_CaCO3	2021-06-02	METHOD	2021-06-02	SM 2320B	mg/L	2	2	5	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	746122	NH3-N	2021-06-02	METHOD	2021-06-02	EPA 350.1	mg/L	.03	.03	.1	U	UJ	IP

Highlighted cells indicate field precision outside of criteria

Table A5c. BPSOU 2021 Normal Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Batch ID	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Unit	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	746625	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	mg/L	.078	.078	.2	U	UJ	IP
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	746687	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U	UJ	IP
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	mg/L	.00069	.00038	.0025	J,B,D3	UJ	MB
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	AlDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.0071	.0071	.02	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	AsDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	CaDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.016	.015	.04	J		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	CdDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.00005	.00003	.00008	J		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	CuDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.00043	.00043	.001	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	FeDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.012	.012	.05	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	Hard	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.062	.054	.14	J		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	MgDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.005	.0039	.01	J		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	MoDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.0001	.000081	.0005	J		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	PbDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.000076	.000043	.0001	J		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	747567	ZnDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	mg/L	.0023	.0023	.005	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	748681	HgDis	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10561813	PACE_MPLS	SWQC	SWBF0044-051921	10561813004	2021-05-19	748684	HgTR	2021-06-14	EPA 245.1	2021-06-15	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10564925	PACE_LEN	SWQC	SWBF0058-060921	10564925004	2021-06-09	726747	DOC	2021-06-16	METHOD	2021-06-16	SM 5310C	mg/L	.51	.3	1	J		
10564925	PACE_LEN	SWQC	SWBF0058-060921	10564925004	2021-06-09	728092	TKN	2021-06-23	METHOD	2021-06-23	EPA 351.2	mg/L	.48	.48	.5	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	749420	HgDis	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	749424	HgTR	2021-06-16	EPA 245.1	2021-06-17	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	749645	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	mg/L	.079	.078	.2	J		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	749742	TSS	2021-06-16	METHOD	2021-06-16	SM 2540D	mg/L	5	5	10	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	749757	TDS	2021-06-16	METHOD	2021-06-16	SM 2540C	mg/L	5	5	10	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750604	P	2021-06-20	SM4500-P-B	2021-06-21	SM 4500-P-F	mg/L	.05	.05	.1	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.000077	.000077	.0005	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.0071	.0071	.02	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.033	.015	.04	J		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.00043	.00043	.001	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.012	.012	.05	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.11	.054	.14	J		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.0057	.0039	.01	J		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.000081	.000081	.0005	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.000043	.000043	.0001	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750605	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	mg/L	.0028	.0023	.005	J		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750657	AgTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	mg/L	.000077	.000077	.0005	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750657	AlTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	mg/L	.0071	.0071	.02	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750657	AsTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	mg/L	.00014	.00014	.0005	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750657	CdTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	mg/L	.00003	.00003	.00008	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750657	CuTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	mg/L	.00043	.00043	.001	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750657	FeTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	mg/L	.015	.012	.05	J		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750657	MoTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	mg/L	.000081	.000081	.0005	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750657	PbTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	mg/L	.000083	.000043	.0001	J		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750657	ZnTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	mg/L	.0023	.0023	.005	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	750785	NH3-N	2021-06-21	METHOD	2021-06-21	EPA 350.1	mg/L	.03	.03	.1	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	751522	ALK_CaCO3	2021-06-23	METHOD	2021-06-23	SM 2320B	mg/L	1.8	1.8	5	U		
10564925	PACE_MPLS	SWQC	SWBF0058-060921	10564925004	2021-06-09	751763	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		

Highlighted cells indicate field precision outside of criteria

Table A5c. BPSOU 2021 Normal Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Batch ID	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Unit	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10569157	PACE_LEN	SWQC	SWBF0084-070821	10569157004	2021-07-08	731841	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	mg/L	.49	.3	1	J		
10569157	PACE_LEN	SWQC	SWBF0084-070821	10569157004	2021-07-08	733215	TKN	2021-07-21	METHOD	2021-07-21	EPA 351.2	mg/L	.48	.48	.5	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	755301	AgTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	755301	AlTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	mg/L	.008	.008	.02	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	755301	AsTR	2021-07-12	EPA 200.8	2021-07-21	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	755301	CdTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	755301	CuTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	mg/L	.0005	.0005	.001	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	755301	FeTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	mg/L	.012	.012	.05	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	755301	MoTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	755301	PbTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	mg/L	.000031	.000028	.0001	J		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	755301	ZnTR	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	mg/L	.002	.002	.005	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	756126	HgTR	2021-07-14	EPA 245.1	2021-07-15	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	756473	TDS	2021-07-15	METHOD	2021-07-15	SM 2540C	mg/L	5	5	10	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	756475	TSS	2021-07-15	METHOD	2021-07-15	SM 2540D	mg/L	5	5	10	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	756742	HgDis	2021-07-16	EPA 245.1	2021-07-20	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757116	ALK_CaCO3	2021-07-19	METHOD	2021-07-19	SM 2320B	mg/L	2.7	1.8	5	J		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757191	NH3-N	2021-07-20	METHOD	2021-07-20	EPA 350.1	mg/L	.03	.03	.1	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757196	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757766	P	2021-07-21	SM4500-P-B	2021-07-22	SM 4500-P-F	mg/L	.05	.05	.1	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	AgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	AlDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.008	.008	.02	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	AsDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	CaDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.025	.018	.04	J		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	CdDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	CuDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.0005	.0005	.001	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	FeDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.04	.012	.05	J		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	Hard	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.079	.06	.14	J		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	MgDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.0043	.0034	.01	J		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	MoDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	PbDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.000042	.000028	.0001	J		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	757802	ZnDis	2021-07-22	EPA 200.8	2021-07-23	EPA 200.8	mg/L	.002	.002	.005	U		
10569157	PACE_MPLS	SWQC	SWBF0084-070821	10569157004	2021-07-08	758164	NO3/NO2-N	2021-07-22	METHOD	2021-07-22	SM 4500-NO3-H	mg/L	.078	.078	.2	J		
10573218	PACE_LEN	SWQC	SWBF0110-080421	10573218004	2021-08-04	738102	TKN	2021-08-16	METHOD	2021-08-17	EPA 351.2	mg/L	.48	.48	.5	U,M1	UJ	MS
10573218	PACE_LEN	SWQC	SWBF0110-080421	10573218004	2021-08-04	738148	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	mg/L	.53	.3	1	J		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	761844	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	mg/L	.078	.078	.2	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	AgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	AlDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.008	.008	.02	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	AsDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	CaDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.019	.018	.04	J		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	CdDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	CuDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.0005	.0005	.001	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	FeDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.012	.012	.05	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	Hard	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.06	.06	.14	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	MgDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.0034	.0034	.01	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	MoDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	PbDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.000028	.000028	.0001	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762296	ZnDis	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	.002	.002	.005	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762298	AgTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762298	AlTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	.008	.008	.02	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762298	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	.000083	.000083	.0005	U		

Highlighted cells indicate field precision outside of criteria

Table A5c. BPSOU 2021 Normal Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Batch ID	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Unit	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762298	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762298	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	.0005	.0005	.001	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762298	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	.012	.012	.05	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762298	MoTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762298	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	.000084	.000028	.0001	J		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762298	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	.002	.002	.005	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762331	TDS	2021-08-10	METHOD	2021-08-10	SM 2540C	mg/L	7	5	10	J		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762333	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	mg/L	5	5	10	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762416	HgTR	2021-08-10	EPA 245.1	2021-08-11	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	762746	HgDis	2021-08-11	EPA 245.1	2021-08-12	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	763545	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	mg/L	.03	.03	.1	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	763956	ALK_CaCO3	2021-08-17	METHOD	2021-08-17	SM 2320B	mg/L	1.8	1.8	5	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	764333	P	2021-08-18	SM4500-P-B	2021-08-19	SM 4500-P-F	mg/L	.05	.05	.1	U		
10573218	PACE_MPLS	SWQC	SWBF0110-080421	10573218004	2021-08-04	764346	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10577494	PACE_LEN	SWQC	SWBF0136-090121	10577494004	2021-09-01	744071	TKN	2021-09-17	METHOD	2021-09-20	EPA 351.2	mg/L	.48	.48	.5	U		
10577494	PACE_LEN	SWQC	SWBF0136-090121	10577494004	2021-09-01	744152	DOC	2021-09-18	METHOD	2021-09-18	SM 5310C	mg/L	.67	.3	1	J		
10577494	PACE_LEN	SWQC	SWBF0136-090121	10577494004	2021-09-01	744152	DOC	2021-09-18	METHOD	2021-09-18	SM 5310C	mg/L	.67	.3	1	J		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768272	TDS	2021-09-05	METHOD	2021-09-05	SM 2540C	mg/L	5	5	10	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768275	TSS	2021-09-07	METHOD	2021-09-07	SM 2540D	mg/L	5	5	10	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	AgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	AlDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.008	.008	.02	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	AsDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	CaDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.029	.018	.04	J		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	CdDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	CuDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.0005	.0005	.001	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	FeDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.012	.012	.05	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	Hard	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.093	.06	.14	J		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	MgDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.0051	.0034	.01	J		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	MoDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	PbDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.000028	.000028	.0001	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768647	ZnDis	2021-09-15	EPA 200.8	2021-09-20	EPA 200.8	mg/L	.002	.002	.005	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768648	AgTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768648	AlTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	mg/L	.008	.008	.02	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768648	AsTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768648	CdTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768648	CuTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	mg/L	.0005	.0005	.001	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768648	FeTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	mg/L	.012	.012	.05	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768648	MoTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768648	PbTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	mg/L	.000039	.000028	.0001	J		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	768648	ZnTR	2021-09-15	EPA 200.8	2021-09-21	EPA 200.8	mg/L	.002	.002	.005	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	769329	NO3/NO2-N	2021-09-10	METHOD	2021-09-10	SM 4500-NO3-H	mg/L	.084	.078	.2	J		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	769437	HgTR	2021-09-13	EPA 245.1	2021-09-14	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	769961	P	2021-09-15	SM4500-P-B	2021-09-15	SM 4500-P-F	mg/L	.05	.05	.1	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	769987	ALK_CaCO3	2021-09-14	METHOD	2021-09-14	SM 2320B	mg/L	1.8	1.8	5	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	770040	HgDis	2021-09-14	EPA 245.1	2021-09-15	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	771079	NH3-N	2021-09-19	METHOD	2021-09-19	EPA 350.1	mg/L	.03	.03	.1	U		

Highlighted cells indicate field precision outside of criteria

Table A5c. BPSOU 2021 Normal Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Batch ID	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Unit	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10577494	PACE_MPLS	SWQC	SWBF0136-090121	10577494004	2021-09-01	771229	SO4	2021-09-20	METHOD	2021-09-20	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10584279	PACE_LEN	SWQC	SWBF0166-101821	10584279004	2021-10-18	752261	TKN	2021-10-27	METHOD	2021-10-28	EPA 351.2	mg/L	.48	.48	.5	U		
10584279	PACE_LEN	SWQC	SWBF0166-101821	10584279004	2021-10-18	752274	DOC	2021-10-27	METHOD	2021-10-27	SM 5310C	mg/L	4.4	.3	1			
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779044	TSS	2021-10-25	METHOD	2021-10-25	SM 2540D	mg/L	5	5	10	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779048	TDS	2021-10-25	METHOD	2021-10-25	SM 2540C	mg/L	5	5	10	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779085	NH3-N	2021-10-25	METHOD	2021-10-25	EPA 350.1	mg/L	.03	.03	.1	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779787	HgTR	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779788	HgDis	2021-10-28	EPA 245.1	2021-10-29	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	AgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	AlDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.008	.008	.02	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	AsDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	CaDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.018	.018	.04	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	CdDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	CuDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.0005	.0005	.001	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	FeDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.012	.012	.05	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	Hard	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.06	.06	.14	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	MgDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.0039	.0034	.01	J		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	MoDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	PbDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.000028	.000028	.0001	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779812	ZnDis	2021-11-01	EPA 200.8	2021-11-04	EPA 200.8	mg/L	.002	.002	.005	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779897	SO4	2021-11-05	METHOD	2021-11-05	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	779907	P	2021-10-28	SM4500-P-B	2021-11-03	SM 4500-P-F	mg/L	.05	.05	.1	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780047	AgTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780047	AlTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	mg/L	.008	.008	.02	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780047	AsTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780047	CdTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780047	CuTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	mg/L	.0005	.0005	.001	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780047	FeTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	mg/L	.012	.012	.05	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780047	MoTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780047	PbTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	mg/L	.000067	.000028	.0001	J		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780047	ZnTR	2021-11-01	EPA 200.8	2021-11-03	EPA 200.8	mg/L	.002	.002	.005	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	780549	ALK_CaCO3	2021-10-30	METHOD	2021-10-30	SM 2320B	mg/L	1.8	1.8	5	U		
10584279	PACE_MPLS	SWQC	SWBF0166-101821	10584279004	2021-10-18	781568	NO3/NO2-N	2021-11-04	METHOD	2021-11-04	SM 4500-NO3-H	mg/L	.11	.078	.2	J,B		
10585797	PACE_LEN	SWQC	SWBF0176-110121	10585797004	2021-11-01	755862	TKN	2021-11-12	METHOD	2021-11-15	EPA 351.2	mg/L	.48	.48	.5	U		
10585797	PACE_LEN	SWQC	SWBF0176-110121	10585797004	2021-11-01	756224	DOC	2021-11-15	METHOD	2021-11-15	SM 5310C	mg/L	.64	.3	1	J		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	781934	TDS	2021-11-08	METHOD	2021-11-08	SM 2540C	mg/L	5	5	10	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	781936	TSS	2021-11-08	METHOD	2021-11-08	SM 2540D	mg/L	5	5	10	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782195	HgTR	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782197	HgDis	2021-11-09	EPA 245.1	2021-11-10	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	AgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.00016	.00016	.0005	U,L1		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	AlDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.008	.008	.02	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	AsDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	CaDis	2021-11-11	EPA 200.8	2021-11-16	EPA 200.8	mg/L	.018	.018	.04	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	CdDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.000016	.000016	.00008	J,B	UJ	MB
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	CuDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.0005	.0005	.001	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	FeDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.012	.012	.05	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	Hard	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.064	.06	.14	J		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	MgDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.0053	.0034	.01	J		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	MoDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	PbDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.000046	.000028	.0001	J,B		

Highlighted cells indicate field precision outside of criteria

Table A5c. BPSOU 2021 Normal Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Batch ID	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Unit	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782363	ZnDis	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.002	.002	.005	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782364	AgTR	2021-11-11	EPA 200.8	2021-11-12	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782364	AlTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.008	.008	.02	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782364	AsTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782364	CdTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782364	CuTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.0011	.0005	.001			
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782364	FeTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.012	.012	.05	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782364	MoTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782364	PbTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.00008	.000028	.0001	J		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782364	ZnTR	2021-11-11	EPA 200.8	2021-11-15	EPA 200.8	mg/L	.002	.002	.005	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782663	NH3-N	2021-11-10	METHOD	2021-11-10	EPA 350.1	mg/L	.03	.03	.1	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	782782	SO4	2021-11-10	METHOD	2021-11-10	ASTM D516-90-02	mg/L	1.2	1.2	2.5	J		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	783048	NO3/NO2-N	2021-11-12	METHOD	2021-11-12	SM 4500-NO3-H	mg/L	.078	.078	.2	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	783417	ALK_CaCO3	2021-11-12	METHOD	2021-11-12	SM 2320B	mg/L	1.8	1.8	5	U		
10585797	PACE_MPLS	SWQC	SWBF0176-110121	10585797004	2021-11-01	783578	P	2021-11-14	SM4500-P-B	2021-11-15	SM 4500-P-F	mg/L	.05	.05	.1	U		
10590953	PACE_LEN	SWQC	SWBF0186-120821	10590953004	2021-12-08	762095	DOC	2021-12-16	METHOD	2021-12-16	SM 5310C	mg/L	.3	.3	1	U		
10590953	PACE_LEN	SWQC	SWBF0186-120821	10590953004	2021-12-08	763092	TKN	2021-12-21	METHOD	2021-12-23	EPA 351.2	mg/L	.48	.48	.5	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788624	AgTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788624	AlTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	mg/L	.008	.008	.02	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788624	AsTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788624	CdTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788624	CuTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	mg/L	.0005	.0005	.001	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788624	FeTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	mg/L	.012	.012	.05	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788624	MoTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788624	PbTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	mg/L	.000041	.000028	.0001	J		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788624	ZnTR	2021-12-13	EPA 200.8	2021-12-21	EPA 200.8	mg/L	.002	.002	.005	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788694	NH3-N	2021-12-12	METHOD	2021-12-12	EPA 350.1	mg/L	.03	.03	.1	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788884	HgTR	2021-12-14	EPA 245.1	2021-12-15	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	788929	TSS	2021-12-14	METHOD	2021-12-14	SM 2540D	mg/L	5	5	10	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	789271	SO4	2021-12-15	METHOD	2021-12-15	ASTM D516-90-02	mg/L	2.2	1.2	2.5	J		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	789285	TDS	2021-12-15	METHOD	2021-12-15	SM 2540C	mg/L	5	5	10	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	789316	HgDis	2021-12-16	EPA 245.1	2021-12-19	EPA 245.1	mg/L	.0000047	.0000047	.00001	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790000	P	2021-12-19	SM4500-P-B	2021-12-20	SM 4500-P-F	mg/L	.05	.05	.1	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790407	ALK_CaCO3	2021-12-21	METHOD	2021-12-21	SM 2320B	mg/L	1.8	1.8	5	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790585	NO3/NO2-N	2021-12-22	METHOD	2021-12-22	SM 4500-NO3-H	mg/L	.078	.078	.2	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	AgDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.00016	.00016	.0005	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	AlDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.008	.008	.02	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	AsDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.000083	.000083	.0005	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	CaDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.018	.018	.04	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	CdDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.000016	.000016	.00008	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	CuDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.0005	.0005	.001	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	FeDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.012	.012	.05	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	Hard	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.06	.06	.14	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	MgDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.0034	.0034	.01	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	MoDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.000094	.000094	.0005	U		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	PbDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.000036	.000028	.0001	J		
10590953	PACE_MPLS	SWQC	SWBF0186-120821	10590953004	2021-12-08	790609	ZnDis	2021-12-22	EPA 200.8	2021-12-23	EPA 200.8	mg/L	.002	.002	.005	U		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	AgDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		0.05	0.055	0.000077	0.0005	mg/L	110		70	130		
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	AgDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		0.05	0.055	0.000077	0.0005	mg/L	110		70	130	20	
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	AgDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	AgDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		0.05	0.056	0.000077	0.0005	mg/L	112		85	115		
10545858	721909	3850273BLANK_10545858	3850273		MB	INITIAL	AgTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10545858	721909	1/21/2021	3850274		LCS	INITIAL	AgTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8		0.05	0.048	0.000077	0.0005	mg/L	97		85	115		
10545858	721909	SWBF0008-012121MSD	3850276	SWBF0008-012121	MSD	INITIAL	AgTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.000012	0.05	0.052	0.00038	0.0025	mg/L	103		70	130	20	
10545858	721909	SWBF0008-012121MS	3850275	SWBF0008-012121	MS	INITIAL	AgTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.000012	0.05	0.052	0.00038	0.0025	mg/L	103		70	130		
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	AlDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.0037	2	2.1	0.0071	0.02	mg/L	103		70	130	20	
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	AlDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.0037	2	2.1	0.0071	0.02	mg/L	103		70	130		
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	AlDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	AlDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		2	2	0.0071	0.02	mg/L	102		85	115		
10545858	722461	SWBF0008-012121MSD	3852108	SWBF0008-012121	MSD	INITIAL	ALK_CaCO3	T	1	1/27/21	METHOD	1/27/21	SM 2320B	109	40	150	2	5	mg/L	102	1	80	120	20	
10545858	722461	SWBF0008-012121MS	3852107	SWBF0008-012121	MS	INITIAL	ALK_CaCO3	T	1	1/27/21	METHOD	1/27/21	SM 2320B	109	40	151	2	5	mg/L	105		80	120		
10545858	722461	3852102BLANK_10545858	3852102		MB	INITIAL	ALK_CaCO3	T	1	1/27/21	METHOD	1/27/21	SM 2320B			2	2	5	mg/L						
10545858	722461	3852103LCS_10545858	3852103		LCS	INITIAL	ALK_CaCO3	T	1	1/27/21	METHOD	1/27/21	SM 2320B		40	43.3	2	5	mg/L	108		90	110		
10545858	722461	3852104LCSD_10545858	3852104	852103LCS_1054585	LCSD	INITIAL	ALK_CaCO3	T	1	1/27/21	METHOD	1/27/21	SM 2320B		40	43.6	2	5	mg/L	109	1	90	110	20	
10545858	721909	SWBF0008-012121MS	3850275	SWBF0008-012121	MS	INITIAL	AlTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.083	2	2.1	0.036	0.1	mg/L	103		70	130		
10545858	721909	3850274LCS_10545858	3850274		LCS	INITIAL	AlTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8		2	2	0.0071	0.02	mg/L	98		85	115		
10545858	721909	3850273BLANK_10545858	3850273		MB	INITIAL	AlTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10545858	721909	SWBF0008-012121MSD	3850276	SWBF0008-012121	MSD	INITIAL	AlTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.083	2	2.2	0.036	0.1	mg/L	103		70	130	20	
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	AsDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.0019	0.1	0.11	0.00014	0.0005	mg/L	104		70	130		
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	AsDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	AsDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		0.1	0.1	0.00014	0.0005	mg/L	101		85	115		
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	AsDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.0019	0.1	0.11	0.00014	0.0005	mg/L	105		70	130	20	
10545858	721909	SWBF0008-012121MSD	3850276	SWBF0008-012121	MSD	INITIAL	AsTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.0022	0.1	0.1	0.0007	0.0025	mg/L	102	1	70	130	20	
10545858	721909	SWBF0008-012121MS	3850275	SWBF0008-012121	MS	INITIAL	AsTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.0022	0.1	0.1	0.0007	0.0025	mg/L	102		70	130		
10545858	721909	3850273BLANK_10545858	3850273		MB	INITIAL	AsTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10545858	721909	3850274LCS_10545858	3850274		LCS	INITIAL	AsTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8		0.1	0.096	0.00014	0.0005	mg/L	96		85	115		
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	CaDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	42	2	48.6	0.015	0.04	mg/L	327	7	70	130	20	
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	CaDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	42	2	45.3	0.015	0.04	mg/L	166		70	130		
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	CaDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		2	2	0.015	0.04	mg/L	99		85	115		
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	CaDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.015	0.015	0.04	mg/L						
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	CdDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		0.1	0.1	0.00003	0.00008	mg/L	100		85	115		
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	CdDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	CdDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.000015	0.1	0.1	0.00003	0.00008	mg/L	100		70	130		
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	CdDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.000015	0.1	0.1	0.00003	0.00008	mg/L	100		70	130	20	
10545858	721909	SWBF0008-012121MSD	3850276	SWBF0008-012121	MSD	INITIAL	CdTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.000035	0.1	0.1	0.00015	0.0004	mg/L	101	2	70	130	20	
10545858	721909	3850274LCS_10545858	3850274		LCS	INITIAL	CdTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8		0.1	0.097	0.00003	0.00008	mg/L	97		85	115		
10545858	721909	3850273BLANK_10545858	3850273		MB	INITIAL	CdTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10545858	721909	SWBF0008-012121MS	3850275	SWBF0008-012121	MS	INITIAL	CdTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.000035	0.1	0.099	0.00015	0.0004	mg/L	99		70	130		
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	CuDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.00088	0.1	0.1	0.00043	0.001	mg/L	103		70	130	20	
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	CuDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	CuDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		0.1	0.1	0.00043	0.001	mg/L	105		85	115		
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	CuDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.00088	0.1	0.1	0.00043	0.001	mg/L	103		70	130		
10545858	721909	3850273BLANK_10545858	3850273		MB	INITIAL	CuTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10545858	721909	3850274LCS_10545858	3850274		LCS	INITIAL	CuTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8		0.1	0.098	0.00043	0.001	mg/L	98		85	115		
10545858	721909	SWBF0008-012121MSD	3850276	SWBF0008-012121	MSD	INITIAL	CuTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.0032	0.1	0.11	0.0021	0.005	mg/L	103		70	130	20	
10545858	721909	SWBF0008-012121MS	3850275	SWBF0008-012121	MS	INITIAL	CuTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.0032	0.1	0.11	0.0021	0.005	mg/L	103		70	130		
10545858	702970	SWBF0008-012121MSD	2833704	SWBF0008-012121	MSD	INITIAL	DOC	D	1	2/5/21	METHOD	2/5/21	SM 5310C	2.5	5	7.2	0.3	1	mg/L	94	2	80	120	25	
10545858	702970	SWBF0008-012121DUP	2833705	SWBF0008-012121	LR	INITIAL	DOC	D	1	2/5/21	METHOD	2/5/21	SM 5310C	2.5		2.5	0.3	1	mg/L		1			25	
10545858	702970	2833701BLANK_10545858	2833701		MB	INITIAL	DOC	D	1	2/5/21	METHOD	2/5/21	SM 5310C			0.3	0.3	1	mg/L						
10545858	702970	2833702LCS_10545858	2833702		LCS	INITIAL	DOC	D	1	2/5/21	METHOD	2/5/21	SM 5310C		5	5.2	0.3	1	mg/L	104		80	120		
10545858	702970	SWBF0008-012121MS	2833703	SWBF0008-012121	MS	INITIAL	DOC	D	1	2/5/21	METHOD	2/5/21	SM 5310C	2.5	5	7.3	0.3	1	mg/L	96		80	120		
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	FeDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	106		85	115		
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	FeDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	FeDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.047	2	2.2	0.012	0.05	mg/L	108	1	70	130	20	
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	FeDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.047	2	2.2	0.012	0.05	mg/L	107		70	130		
10545858	721909	SWBF0008-012121MS	3850275	SWBF0008-012121	MS	INITIAL	FeTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.32	2	2.5	0.06	0.25	mg/L	108		70	130		
10545858	721909	SWBF0008-012121MSD	3850276	SWBF0008-012121	MSD	INITIAL	FeTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.32	2	2.5	0.06	0.25	mg/L	107	1	70	130	20	
10545858	721909	3850273BLANK_10545858	3850273		MB	INITIAL	FeTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10545858	721909	3850274LCS_10545858	3850274		LCS	INITIAL	FeTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8		2	2	0.012	0.05	mg/L	101		85	115		
10545858	722746	3853196BLANK_10545858	3853196		MB	INITIAL	HgDis	D	1	1/28/21	METHOD	1/29/21	EPA 245.1			0.0000045	0.0000045	0.00001	mg/L						
10545858	722746	3853197LCS_10545858	3853197		LCS	INITIAL	HgDis	D	1	1/28/21	METHOD	1/29/21	EPA 245.1		0.0001	0.0001	0.0000045	0.00001	mg/L	100		85	115		
10545858	722746	SWBF0008-012121MS	3853198	SWBF0008-012121	MS	INITIAL	HgDis	D	1	1/28/21	METHOD	1/29/21	EPA 245.1		0.0001	0.0001	0.0000045	0.00001	mg/L	103		70	130		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10545858	722746	SWBF0008-012121MSD	3853199	SWBF0008-012121	MSD	INITIAL	HgDis	D	1	1/28/21	METHOD	1/29/21	EPA 245.1		0.0001	0.0001	0.0000045	0.00001	mg/L	102	1	70	130	20	
10545858	722205	SWBF0008-012121MSD	3851090	SWBF0008-012121	MSD	INITIAL	HgTR	T	1	1/26/21	METHOD	1/28/21	EPA 245.1		0.0001	0.00011	0.0000045	0.00001	mg/L	103	3	70	130	20	
10545858	722205	3851087BLANK_10545858	3851087		MB	INITIAL	HgTR	T	1	1/26/21	METHOD	1/28/21	EPA 245.1			0.0000045	0.0000045	0.00001	mg/L						
10545858	722205	3851088LCS_10545858	3851088		LCS	INITIAL	HgTR	T	1	1/26/21	METHOD	1/28/21	EPA 245.1		0.0001	0.000099	0.0000045	0.00001	mg/L	99		85	115		
10545858	722205	SWBF0008-012121MS	3851089	SWBF0008-012121	MS	INITIAL	HgTR	T	1	1/26/21	METHOD	1/28/21	EPA 245.1		0.0001	0.0001	0.0000045	0.00001	mg/L	100		70	130		
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	MgDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.0039	0.0039	0.01	mg/L						
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	MgDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		2	2.1	0.0039	0.01	mg/L	105		85	115		
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	MgDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	10.4	2	13.7	0.0039	0.01	mg/L	163	6	70	130	20	
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	MgDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	10.4	2	12.9	0.0039	0.01	mg/L	124		70	130		
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	MoDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		0.1	0.1	0.000081	0.0005	mg/L	100		85	115		
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	MoDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	MoDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.0066	0.1	0.11	0.000081	0.0005	mg/L	101		70	130		
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	MoDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.0066	0.1	0.11	0.000081	0.0005	mg/L	104	3	70	130	20	
10545858	721909	SWBF0008-012121MS	3850275	SWBF0008-012121	MS	INITIAL	MoTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.0063	0.1	0.11	0.0004	0.0025	mg/L	103		70	130		
10545858	721909	3850274LCS_10545858	3850274		LCS	INITIAL	MoTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8		0.1	0.097	0.000081	0.0005	mg/L	97		85	115		
10545858	721909	3850273BLANK_10545858	3850273		MB	INITIAL	MoTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10545858	721909	SWBF0008-012121MSD	3850276	SWBF0008-012121	MSD	INITIAL	MoTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.0063	0.1	0.11	0.0004	0.0025	mg/L	103		70	130	20	
10545858	722551	3852509BLANK_10545858	3852509		MB	INITIAL	NH3-N	T	1	1/27/21	METHOD	1/27/21	EPA 350.1			0.025	0.025	0.1	mg/L						
10545858	722551	3852510LCS_10545858	3852510		LCS	INITIAL	NH3-N	T	1	1/27/21	METHOD	1/27/21	EPA 350.1		2.5	2.5	0.025	0.1	mg/L	100		90	110		
10545858	722551	SWBF0001-012121MS	3852513	SWBF0001-012121	MS	INITIAL	NH3-N	T	1	1/27/21	METHOD	1/27/21	EPA 350.1	0.034	2.5	2.5	0.025	0.1	mg/L	98		90	110		
10545858	722551	SWBF0001-012121MSD	3852514	SWBF0001-012121	MSD	INITIAL	NH3-N	T	1	1/27/21	METHOD	1/27/21	EPA 350.1	0.034	2.5	2.4	0.025	0.1	mg/L	95	3	90	110	20	
10545858	722552	3852515BLANK_10545858	3852515		MB	INITIAL	NH3-N	T	1	1/27/21	METHOD	1/27/21	EPA 350.1			0.025	0.025	0.1	mg/L						
10545858	722552	3852516LCS_10545858	3852516		LCS	INITIAL	NH3-N	T	1	1/27/21	METHOD	1/27/21	EPA 350.1		2.5	2.5	0.025	0.1	mg/L	99		90	110		
10545858	722552	SWBF0008-012121MSD	3852518	SWBF0008-012121	MSD	INITIAL	NH3-N	T	1	1/27/21	METHOD	1/27/21	EPA 350.1		2.5	2.5	0.025	0.1	mg/L	99	1	90	110	20	
10545858	722552	SWBF0008-012121MS	3852517	SWBF0008-012121	MS	INITIAL	NH3-N	T	1	1/27/21	METHOD	1/27/21	EPA 350.1		2.5	2.4	0.025	0.1	mg/L	98		90	110		
10545858	722636	3852889BLANK_10545858	3852889		MB	INITIAL	NO3/NO2-N	T	1	1/28/21	METHOD	1/28/21	SM 4500-NO3-H			0.083	0.078	0.2	mg/L						
10545858	722636	3852890LCS_10545858	3852890		LCS	INITIAL	NO3/NO2-N	T	1	1/28/21	METHOD	1/28/21	SM 4500-NO3-H		2.5	2.4	0.078	0.2	mg/L	97		90	110		
10545858	722636	SWBF0008-012121MSD	3852894	SWBF0008-012121	MSD	INITIAL	NO3/NO2-N	T	1	1/28/21	METHOD	1/28/21	SM 4500-NO3-H	1.8	2.5	4.3	0.078	0.2	mg/L	103	1	80	120	20	
10545858	722636	SWBF0008-012121MS	3852893	SWBF0008-012121	MS	INITIAL	NO3/NO2-N	T	1	1/28/21	METHOD	1/28/21	SM 4500-NO3-H	1.8	2.5	4.3	0.078	0.2	mg/L	102		80	120		
10545858	723711	SWBF0008-012121MS	3857830	SWBF0008-012121	MS	INITIAL	P	T	1	2/3/21	SM4500-P-B	2/4/21	SM 4500-P-F	0.1	2.5	2.4	0.028	0.1	mg/L	93		80	120		
10545858	723711	SWBF0008-012121MSD	3857831	SWBF0008-012121	MSD	INITIAL	P	T	1	2/3/21	SM4500-P-B	2/4/21	SM 4500-P-F	0.1	2.5	2.5	0.028	0.1	mg/L	95	2	80	120	20	
10545858	723711	3857826BLANK_10545858	3857826		MB	INITIAL	P	T	1	2/3/21	SM4500-P-B	2/4/21	SM 4500-P-F			0.028	0.028	0.1	mg/L						
10545858	723711	3857827LCS_10545858	3857827		LCS	INITIAL	P	T	1	2/3/21	SM4500-P-B	2/4/21	SM 4500-P-F		2.5	2.4	0.028	0.1	mg/L	96		90	110		
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	PbDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.000031	0.1	0.11	0.000043	0.0001	mg/L	108		70	130		
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	PbDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.000031	0.1	0.11	0.000043	0.0001	mg/L	105	2	70	130	20	
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	PbDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	PbDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		0.1	0.11	0.000043	0.0001	mg/L	107		85	115		
10545858	721909	SWBF0008-012121MS	3850275	SWBF0008-012121	MS	INITIAL	PbTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.00082	0.1	0.1	0.00022	0.0005	mg/L	101		70	130		
10545858	721909	3850274LCS_10545858	3850274		LCS	INITIAL	PbTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8		0.1	0.1	0.000043	0.0001	mg/L	100		85	115		
10545858	721909	3850273BLANK_10545858	3850273		MB	INITIAL	PbTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10545858	721909	SWBF0008-012121MSD	3850276	SWBF0008-012121	MSD	INITIAL	PbTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.00082	0.1	0.1	0.00022	0.0005	mg/L	101		70	130	20	
10545858	722097	SWBF0008-012121MS	3850775	SWBF0008-012121	MS	INITIAL	SO4	T	2	1/26/21	METHOD	1/26/21	ASTM D516-90-0	35.6	20	51.6	2.4	5	mg/L	80		80	120		
10545858	722097	SWBF0008-012121MSD	3850776	SWBF0008-012121	MSD	INITIAL	SO4	T	2	1/26/21	METHOD	1/26/21	ASTM D516-90-0	35.6	20	50	2.4	5	mg/L	72	3	80	120	30	
10545858	722097	3850770BLANK_10545858	3850770		MB	INITIAL	SO4	T	1	1/26/21	METHOD	1/26/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10545858	722097	3850771LCS_10545858	3850771		LCS	INITIAL	SO4	T	1	1/26/21	METHOD	1/26/21	ASTM D516-90-02		20	19.1	1.2	2.5	mg/L	95		80	120		
10545858	722097	3850772LCSD_10545858	3850772	850771LCS_1054585	LCSD	INITIAL	SO4	T	1	1/26/21	METHOD	1/26/21	ASTM D516-90-02		20	19.4	1.2	2.5	mg/L	97	2	80	120	20	
10545858	722565	3852577BLANK_10545858	3852577		MB	INITIAL	TDS	D	1	1/28/21	METHOD	1/28/21	SM 2540C			5	5	10	mg/L						
10545858	722565	3852578LCS_10545858	3852578		LCS	INITIAL	TDS	D	1	1/28/21	METHOD	1/28/21	SM 2540C		1000	1040	10	20	mg/L	104		80	120		
10545858	722567	3852593BLANK_10545858	3852593		MB	INITIAL	TDS	D	1	1/28/21	METHOD	1/28/21	SM 2540C			5	5	10	mg/L						
10545858	722567	3852594LCS_10545858	3852594		LCS	INITIAL	TDS	D	1	1/28/21	METHOD	1/28/21	SM 2540C		1000	1090	10	20	mg/L	109		80	120		
10545858	722567	SWBF0008-012121DUP	3852595	SWBF0008-012121	LR	INITIAL	TDS	D	1	1/28/21	METHOD	1/28/21	SM 2540C	231		211	5	10	mg/L		9			5	
10545858	703007	2833900BLANK_10545858	2833900		MB	INITIAL	TKN	T	1	2/8/21	METHOD	2/8/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10545858	703007	2833901LCS_10545858	2833901		LCS	INITIAL	TKN	T	1	2/8/21	METHOD	2/8/21	EPA 351.2		5	5.2	0.48	0.5	mg/L	104		90	110		
10545858	703007	SWBF0008-012121MSD	2833904	SWBF0008-012121	MSD	INITIAL	TKN	T	1	2/8/21	METHOD	2/8/21	EPA 351.2		5	6.8	0.48	0.5	mg/L	136	1	90	110	10	
10545858	703007	SWBF0008-012121DUP	2833902	SWBF0008-012121	LR	INITIAL	TKN	T	1	2/8/21	METHOD	2/8/21	EPA 351.2			0	0.48	0.5	mg/L					10	
10545858	703007	SWBF0008-012121MS	2833903	SWBF0008-012121	MS	INITIAL	TKN	T	1	2/8/21	METHOD	2/8/21	EPA 351.2		5	6.7	0.48	0.5	mg/L	134		90	110		
10545858	722569	3852604BLANK_10545858	3852604		MB	INITIAL	TSS	T	1	1/28/21	METHOD	1/28/21	SM 2540D			5	5	10	mg/L						
10545858	722569	3852605LCS_10545858	3852605		LCS	INITIAL	TSS	T	1	1/28/21	METHOD	1/28/21	SM 2540D		100	91.6	10	20	mg/L	92		80	120		
10545858	722569	SWBF0001-012121DUP	3852606	SWBF0001-012121	LR	INITIAL	TSS	T	1	1/28/21	METHOD	1/28/21	SM 2540D	3.3		0.5	5	10	mg/L					5	
10545858	722569	SWBF0008-012121DUP	3852607	SWBF0008-012121	LR	INITIAL	TSS	T	1	1/28/21	METHOD	1/28/21	SM 2540D	6.6		4.9	5	10	mg/L					5	
10545858	721906	3850262LCS_10545858	3850262		LCS	INITIAL	ZnDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8		0.1	0.1	0.0023	0.005	mg/L	101		85	115		
10545858	721906	3850261BLANK_10545858	3850261		MB	INITIAL	ZnDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10545858	721906	SWBF0008-012121MSD	3850264	SWBF0008-012121	MSD	INITIAL	ZnDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.0074	0.1	0.1	0.0023	0.005	mg/L	98		70	130	20	
10545858	721906	SWBF0008-012121MS	3850263	SWBF0008-012121	MS	INITIAL	ZnDis	D	1	1/26/21	METHOD	1/29/21	EPA 200.8	0.0074	0.1	0.1	0.0023	0.005	mg/L	98		70	130		
10545858	721909	SWBF0008-012121MS	3850275	SWBF0008-012121	MS	INITIAL	ZnTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.01	0.1	0.11	0.011	0.025	mg/L	103		70	130		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10545858	721909	SWBF0008-012121MSD	3850276	SWBF0008-012121	MSD	INITIAL	ZnTR	T	5	1/26/21	METHOD	2/1/21	EPA 200.8	0.01	0.1	0.11	0.011	0.025	mg/L	105	1	70	130	20	
10545858	721909	3850273BLANK_10545858	3850273		MB	INITIAL	ZnTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10545858	721909	3850274LCS_10545858	3850274		LCS	INITIAL	ZnTR	T	1	1/26/21	METHOD	1/28/21	EPA 200.8		0.1	0.098	0.0023	0.005	mg/L	98		85	115		
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	AgDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	0.000005	0.00005	0.049	0.000077	0.0005	mg/L	98		70	130		
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	AgDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.00005	0.053	0.000077	0.0005	mg/L	107		85	115		
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	AgDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	0.000005	0.00005	0.049	0.000077	0.0005	mg/L	98	1	70	130	20	
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	AgDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	AgDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.00005	0.048	0.000077	0.0005	mg/L	97		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	AgDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	AgDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.00005	0.048	0.000077	0.0005	mg/L	96		85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	728302	SWBF0011-022221MS	3882016	SWBF0011-022221	MS	INITIAL	AgTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.00001	0.05	0.05	0.00038	0.0025	mg/L	99		70	130		
10550036	728302	SWBF0011-022221MSD	3882017	SWBF0011-022221	MSD	INITIAL	AgTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.00001	0.05	0.049	0.00038	0.0025	mg/L	98	1	70	130	20	
10550036	728302	3882014BLANK_10550036	3882014		MB	INITIAL	AgTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10550036	728302	3882015LCS_10550036	3882015		LCS	INITIAL	AgTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8		0.05	0.05	0.000077	0.0005	mg/L	99		85	115		
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	AlDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.002	2.2	0.0071	0.02	mg/L	109		85	115		
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	AlDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	23.5	0.002	2.1	0.0071	0.02	mg/L	105		70	130		
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	AlDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	23.5	0.002	2.1	0.0071	0.02	mg/L	102	3	70	130	20	
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	AlDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	AlDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.002	2	0.0071	0.02	mg/L	101		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	AlDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	AlDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.002	2	0.0071	0.02	mg/L	102	1	85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	728178	3881596BLANK_10550036	3881596		MB	INITIAL	ALK_CaCO3	T	1	3/8/21	METHOD	3/8/21	SM 2320B			2	2	5	mg/L						
10550036	728178	3881597LCS_10550036	3881597		LCS	INITIAL	ALK_CaCO3	T	1	3/8/21	METHOD	3/8/21	SM 2320B		40	43.1	2	5	mg/L	108		90	110		
10550036	728178	3881598LCSD_10550036	3881598	881597LCS_1055003	LCSD	INITIAL	ALK_CaCO3	T	1	3/8/21	METHOD	3/8/21	SM 2320B		40	43.2	2	5	mg/L	108		90	110	20	
10550036	728302	SWBF0011-022221MSD	3882017	SWBF0011-022221	MSD	INITIAL	AlTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.083	2	2	0.036	0.1	mg/L	98	2	70	130	20	
10550036	728302	SWBF0011-022221MS	3882016	SWBF0011-022221	MS	INITIAL	AlTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.083	2	2	0.036	0.1	mg/L	96		70	130		
10550036	728302	3882015LCS_10550036	3882015		LCS	INITIAL	AlTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8		2	1.9	0.0071	0.02	mg/L	95		85	115		
10550036	728302	3882014BLANK_10550036	3882014		MB	INITIAL	AlTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	AsDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	2.3	0.0001	0.11	0.00014	0.0005	mg/L	105	1	70	130	20	
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	AsDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	2.3	0.0001	0.11	0.00014	0.0005	mg/L	106		70	130		
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	AsDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	AsDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.0001	0.1	0.00014	0.0005	mg/L	104		85	115		
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	AsDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	AsDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.091	0.00014	0.0005	mg/L	91		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	AsDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.091	0.00014	0.0005	mg/L	91		85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	728302	SWBF0011-022221MS	3882016	SWBF0011-022221	MS	INITIAL	AsTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.0026	0.1	0.1	0.0007	0.0025	mg/L	101		70	130		
10550036	728302	SWBF0011-022221MSD	3882017	SWBF0011-022221	MSD	INITIAL	AsTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.0026	0.1	0.1	0.0007	0.0025	mg/L	101		70	130	20	
10550036	728302	3882014BLANK_10550036	3882014		MB	INITIAL	AsTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10550036	728302	3882015LCS_10550036	3882015		LCS	INITIAL	AsTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8		0.1	0.097	0.00014	0.0005	mg/L	97		85	115		
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	CaDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.002	2.1	0.015	0.04	mg/L	106		85	115		
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	CaDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.015	0.015	0.04	mg/L						
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	CaDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	279000	0.002	267	0.015	0.04	mg/L	0		70	130		
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	CaDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	279000	0.002	265	0.015	0.04	mg/L	0	1	70	130	20	
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	CaDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.015	0.015	0.04	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	CaDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.002	2	0.015	0.04	mg/L	102		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	CaDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.002	2	0.015	0.04	mg/L	102		85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	CdDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	0.14	0.0001	0.1	0.00003	0.00008	mg/L	102		70	130		
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	CdDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.0001	0.11	0.00003	0.00008	mg/L	108		85	115		
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	CdDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	CdDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	0.14	0.0001	0.1	0.00003	0.00008	mg/L	101	1	70	130	20	
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	CdDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.095	0.00003	0.00008	mg/L	95		85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	CdDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.095	0.00003	0.00008	mg/L	95		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	CdDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	728302	SWBF0011-022221MS	3882016	SWBF0011-022221	MS	INITIAL	CdTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.00013	0.1	0.1	0.00015	0.0004	mg/L	100		70	130		
10550036	728302	SWBF0011-022221MSD	3882017	SWBF0011-022221	MSD	INITIAL	CdTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.00013	0.1	0.1	0.00015	0.0004	mg/L	101		70	130	20	
10550036	728302	3882015LCS_10550036	3882015		LCS	INITIAL	CdTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8		0.1	0.099	0.00003	0.00008	mg/L	99		85	115		
10550036	728302	3882014BLANK_10550036	3882014		MB	INITIAL	CdTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	CuDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	3.6	0.0001	0.1	0.00043	0.001	mg/L	100		70	130		
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	CuDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	3.6	0.0001	0.1	0.00043	0.001	mg/L	99		70	130	20	
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	CuDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	CuDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.0001	0.1	0.00043	0.001	mg/L	105		85	115		
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	CuDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	CuDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.1	0.00043	0.001	mg/L	101		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	CuDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.1	0.00043	0.001	mg/L	101		85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	728302	SWBF0011-022221MS	3882016	SWBF0011-022221	MS	REANALYSIS	CuTR	T	5	3/10/21	METHOD	3/17/21	EPA 200.8	0.0055	0.1	0.1	0.0021	0.005	mg/L	97		70	130		
10550036	728302	3882015LCS_10550036	3882015		LCS	REANALYSIS	CuTR	T	1	3/10/21	METHOD	3/17/21	EPA 200.8		0.1	0.096	0.00043	0.001	mg/L	96		85	115		
10550036	728302	3882014BLANK_10550036	3882014		MB	INITIAL	CuTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10550036	728302	SWBF0011-022221MSD	3882017	SWBF0011-022221	MSD	REANALYSIS	CuTR	T	5	3/10/21	METHOD	3/17/21	EPA 200.8	0.0055	0.1	0.1	0.0021	0.005	mg/L	99	2	70	130	20	
10550036	163561	SWBF0011-022221MS	R3632647-3	SWBF0011-022221	MS	INITIAL	DOC	D	1	3/18/21	METHOD	3/18/21	SM 5310B	2.03	50	48.15	0.106	1	mg/L	92.3		80	120		
10550036	163561	R3632647-1BLANK_10550036	R3632647-1		MB	INITIAL	DOC	D	1	3/18/21	METHOD	3/18/21	SM 5310B			0.396	0.106	1	mg/L						
10550036	163561	R3632647-2LCS_10550036	R3632647-2		LCS	INITIAL	DOC	D	1	3/18/21	METHOD	3/18/21	SM 5310B		75	75.34	0.106	1	mg/L	100		85	115		
10550036	163561	SWBF0011-022221MSD	R3632647-4	SWBF0011-022221	MSD	INITIAL	DOC	D	1	3/18/21	METHOD	3/18/21	SM 5310B	2.03	50	47.97	0.106	1	mg/L	91.9	0.375	80	120	20	
10550036	163561	SWBF0020-022221DUP	R3632647-5	SWBF0020-022221	LR	INITIAL	DOC	D	1	3/18/21	METHOD	3/18/21	SM 5310B	3.6		3.702	0.106	1	mg/L		2.85			20	
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	FeDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	0.013	0.002	2.1	0.012	0.05	mg/L	103		70	130		
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	FeDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	FeDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.002	2.1	0.012	0.05	mg/L	106		85	115		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	FeDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	0.013	0.002	2.1	0.012	0.05	mg/L	103		70	130	20	
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	FeDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.002	2	0.012	0.05	mg/L	100	2	85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	FeDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.002	2	0.012	0.05	mg/L	99		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	FeDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.012	0.012	0.05	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	728302	3882015LCS_10550036	3882015		LCS	REANALYSIS	FeTR	T	1	3/10/21	METHOD	3/17/21	EPA 200.8		2	1.9	0.012	0.05	mg/L	95		85	115		
10550036	728302	SWBF0011-022221MSD	3882017	SWBF0011-022221	MSD	REANALYSIS	FeTR	T	5	3/10/21	METHOD	3/17/21	EPA 200.8	0.14	2	2	0.06	0.25	mg/L	94	1	70	130	20	
10550036	728302	SWBF0011-022221MS	3882016	SWBF0011-022221	MS	REANALYSIS	FeTR	T	5	3/10/21	METHOD	3/17/21	EPA 200.8	0.14	2	2	0.06	0.25	mg/L	93		70	130		
10550036	728302	3882014BLANK_10550036	3882014		MB	INITIAL	FeTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10550036	729771	3889466BLANK_10550036	3889466		MB	INITIAL	HgDis	D	1	3/17/21	METHOD	3/18/21	EPA 245.1			0.0000045	0.0000045	0.00001	mg/L						
10550036	729771	3889467LCS_10550036	3889467		LCS	INITIAL	HgDis	D	1	3/17/21	METHOD	3/18/21	EPA 245.1		0.000000	0.00011	0.0000045	0.00001	mg/L	106		85	115		
10550036	729771	SWBF0011-022221MS	3890636	SWBF0011-022221	MS	INITIAL	HgDis	D	1	3/17/21	METHOD	3/18/21	EPA 245.1	0.000003	0.000000	0.00011	0.0000045	0.00001	mg/L	106		70	130		
10550036	729771	SWBF0011-022221MSD	3890637	SWBF0011-022221	MSD	INITIAL	HgDis	D	1	3/17/21	METHOD	3/18/21	EPA 245.1	0.000003	0.000000	0.0001	0.0000045	0.00001	mg/L	98	8	70	130	20	
10550036	728834	3884442BLANK_10550036	3884442		MB	INITIAL	HgTR	T	1	3/17/21	METHOD	3/18/21	EPA 245.1			0.0000045	0.0000045	0.00001	mg/L						
10550036	728834	3884443LCS_10550036	3884443		LCS	INITIAL	HgTR	T	1	3/17/21	METHOD	3/18/21	EPA 245.1		0.0001	0.00011	0.0000045	0.00001	mg/L	106		85	115		
10550036	728834	SWBF0011-022221MS	3884444	SWBF0011-022221	MS	INITIAL	HgTR	T	1	3/17/21	METHOD	3/18/21	EPA 245.1	0.000011	0.0001	0.00011	0.0000045	0.00001	mg/L	101		70	130		
10550036	728834	SWBF0011-022221MSD	3884445	SWBF0011-022221	MSD	INITIAL	HgTR	T	1	3/17/21	METHOD	3/18/21	EPA 245.1	0.000011	0.0001	0.00011	0.0000045	0.00001	mg/L	100	1	70	130	20	
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	MgDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.0039	0.0039	0.01	mg/L						
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	MgDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.002	2.1	0.0039	0.01	mg/L	106		85	115		
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	MgDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	12800	0.002	14.6	0.0039	0.01	mg/L	90	1	70	130	20	
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	MgDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	12800	0.002	14.8	0.0039	0.01	mg/L	100		70	130		
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	MgDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.002	2	0.0039	0.01	mg/L	101	1	85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	MgDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.0039	0.0039	0.01	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	MgDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.002	2	0.0039	0.01	mg/L	102		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	MoDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	MoDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.0001	0.11	0.000081	0.0005	mg/L	110		85	115		
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	MoDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	442	0.0001	0.57	0.000081	0.0005	mg/L	130		70	130		
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	MoDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	442	0.0001	0.56	0.000081	0.0005	mg/L	115	3	70	130	20	
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	MoDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.094	0.000081	0.0005	mg/L	94		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	MoDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.095	0.000081	0.0005	mg/L	95	1	85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	MoDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	728302	SWBF0011-022221MSD	3882017	SWBF0011-022221	MSD	INITIAL	MoTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.45	0.1	0.52	0.0004	0.0025	mg/L	75	2	70	130	20	
10550036	728302	SWBF0011-022221MS	3882016	SWBF0011-022221	MS	INITIAL	MoTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.45	0.1	0.53	0.0004	0.0025	mg/L	84		70	130		
10550036	728302	3882014BLANK_10550036	3882014		MB	INITIAL	MoTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10550036	728302	3882015LCS_10550036	3882015		LCS	INITIAL	MoTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8		0.1	0.098	0.000081	0.0005	mg/L	98		85	115		
10550036	728719	3883955BLANK_10550036	3883955		MB	INITIAL	NH3-N	T	1	3/10/21	METHOD	3/10/21	EPA 350.1			0.025	0.025	0.1	mg/L						
10550036	728719	3883956LCS_10550036	3883956		LCS	INITIAL	NH3-N	T	1	3/10/21	METHOD	3/10/21	EPA 350.1		2.5	2.5	0.025	0.1	mg/L	98		90	110		
10550036	728719	SWBF0011-022221MS	3883959	SWBF0011-022221	MS	INITIAL	NH3-N	T	1	3/10/21	METHOD	3/10/21	EPA 350.1	0.035	2.5	2.6	0.025	0.1	mg/L	101		90	110		
10550036	728719	SWBF0011-022221MSD	3883960	SWBF0011-022221	MSD	INITIAL	NH3-N	T	1	3/10/21	METHOD	3/10/21	EPA 350.1	0.035	2.5	2.5	0.025	0.1	mg/L	98	4	90	110	20	

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10550036	728185	3881629BLANK_10550036	3881629		MB	INITIAL	NO3/NO2-N	T	1	3/8/21	METHOD	3/8/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10550036	728185	3881630LCS_10550036	3881630		LCS	INITIAL	NO3/NO2-N	T	1	3/8/21	METHOD	3/8/21	SM 4500-NO3-H		2.5	2.5	0.078	0.2	mg/L	101		90	110		
10550036	729448	3888069BLANK_10550036	3888069		MB	INITIAL	NO3/NO2-N	T	1	3/15/21	METHOD	3/15/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10550036	729448	3888070LCS_10550036	3888070		LCS	INITIAL	NO3/NO2-N	T	1	3/15/21	METHOD	3/15/21	SM 4500-NO3-H		2.5	2.5	0.078	0.2	mg/L	101		90	110		
10550036	729344	SWBF0011-022221MSD	3887705	SWBF0011-022221	MSD	INITIAL	P	T	1	3/13/21	SM4500-P-B	3/14/21	SM 4500-P-F	0.058	2.5	2.5	0.028	0.1	mg/L	97	2	80	120	20	
10550036	729344	3887700BLANK_10550036	3887700		MB	INITIAL	P	T	1	3/13/21	SM4500-P-B	3/14/21	SM 4500-P-F			0.028	0.028	0.1	mg/L						
10550036	729344	3887701LCS_10550036	3887701		LCS	INITIAL	P	T	1	3/13/21	SM4500-P-B	3/14/21	SM 4500-P-F		2.5	2.4	0.028	0.1	mg/L	98		90	110		
10550036	729344	SWBF0011-022221MS	3887704	SWBF0011-022221	MS	INITIAL	P	T	1	3/13/21	SM4500-P-B	3/14/21	SM 4500-P-F	0.058	2.5	2.4	0.028	0.1	mg/L	95		80	120		
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	PbDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.0001	0.1	0.000043	0.0001	mg/L	105		85	115		
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	PbDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	PbDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	0.000056	0.0001	0.1	0.000043	0.0001	mg/L	100		70	130		
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	PbDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	0.000056	0.0001	0.097	0.000043	0.0001	mg/L	97	3	70	130	20	
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	PbDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.099	0.000043	0.0001	mg/L	99		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	PbDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	PbDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.1	0.000043	0.0001	mg/L	100	1	85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	728302	SWBF0011-022221MS	3882016	SWBF0011-022221	MS	INITIAL	PbTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.00085	0.1	0.1	0.00022	0.0005	mg/L	100		70	130		
10550036	728302	SWBF0011-022221MSD	3882017	SWBF0011-022221	MSD	INITIAL	PbTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.00085	0.1	0.1	0.00022	0.0005	mg/L	100	1	70	130	20	
10550036	728302	3882014BLANK_10550036	3882014		MB	INITIAL	PbTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10550036	728302	3882015LCS_10550036	3882015		LCS	INITIAL	PbTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8		0.1	0.1	0.000043	0.0001	mg/L	104		85	115		
10550036	728957	SWBF0011-022221MS	3885137	SWBF0011-022221	MS	INITIAL	SO4	T	100	3/11/21	METHOD	3/11/21	ASTM D516-90-0	553	200	831	121	250	mg/L	139		80	120		
10550036	728957	SWBF0011-022221MSD	3885138	SWBF0011-022221	MSD	INITIAL	SO4	T	100	3/11/21	METHOD	3/11/21	ASTM D516-90-0	553	200	844	121	250	mg/L	145	2	80	120	30	
10550036	728957	3885134BLANK_10550036	3885134		MB	INITIAL	SO4	T	1	3/11/21	METHOD	3/11/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10550036	728957	3885135LCS_10550036	3885135		LCS	INITIAL	SO4	T	1	3/11/21	METHOD	3/11/21	ASTM D516-90-02		20	19.2	1.2	2.5	mg/L	96		80	120		
10550036	728957	3885136LCSD_10550036	3885136	885135LCS_1055003	LCSD	INITIAL	SO4	T	1	3/11/21	METHOD	3/11/21	ASTM D516-90-02		20	18.6	1.2	2.5	mg/L	93	3	80	120	20	
10550036	728959	3885141BLANK_10550036	3885141		MB	INITIAL	SO4	T	1	3/11/21	METHOD	3/11/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10550036	728959	3885142LCS_10550036	3885142		LCS	INITIAL	SO4	T	1	3/11/21	METHOD	3/11/21	ASTM D516-90-02		20	17.4	1.2	2.5	mg/L	87		80	120		
10550036	728959	3885143LCSD_10550036	3885143	885142LCS_1055003	LCSD	INITIAL	SO4	T	1	3/11/21	METHOD	3/11/21	ASTM D516-90-02		20	16.9	1.2	2.5	mg/L	85	3	80	120	20	
10550036	708790	SWBF0011-022221DUP	2854454	SWBF0011-022221	LR	INITIAL	TKN	T	1	3/16/21	METHOD	3/17/21	EPA 351.2			0	0.48	0.5	mg/L					10	
10550036	708790	SWBF0011-022221MS	2854455	SWBF0011-022221	MS	INITIAL	TKN	T	1	3/16/21	METHOD	3/17/21	EPA 351.2		5	4.8	0.48	0.5	mg/L	95		90	110		
10550036	708790	2854452BLANK_10550036	2854452		MB	INITIAL	TKN	T	1	3/16/21	METHOD	3/17/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10550036	708790	2854453LCS_10550036	2854453		LCS	INITIAL	TKN	T	1	3/16/21	METHOD	3/17/21	EPA 351.2		5	5.1	0.48	0.5	mg/L	103		90	110		
10550036	708790	SWBF0011-022221MSD	2854456	SWBF0011-022221	MSD	INITIAL	TKN	T	1	3/16/21	METHOD	3/17/21	EPA 351.2		5	4.2	0.48	0.5	mg/L	84	12	90	110	10	
10550036	730493	3893410LCS_10550036	3893410		LCS	INITIAL	ZnDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8		0.0001	0.11	0.0023	0.005	mg/L	109		85	115		
10550036	730493	SWBF0011-022221MS	3893411	SWBF0011-022221	MS	INITIAL	ZnDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	27.5	0.0001	0.13	0.0023	0.005	mg/L	101		70	130		
10550036	730493	3893409BLANK_10550036	3893409		MB	INITIAL	ZnDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10550036	730493	SWBF0011-022221MSD	3893412	SWBF0011-022221	MSD	INITIAL	ZnDis	D	1	3/21/21	METHOD	3/22/21	EPA 200.8	27.5	0.0001	0.13	0.0023	0.005	mg/L	100	1	70	130	20	
10550036	730869	3895043LCSD_10550036	3895043	895042LCS_1055003	LCSD	INITIAL	ZnDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.097	0.0023	0.005	mg/L	97	1	85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895041BLANK_10550036	3895041		MB	INITIAL	ZnDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	730869	3895042LCS_10550036	3895042		LCS	INITIAL	ZnDis	D	1	3/24/21	METHOD	3/24/21	EPA 200.8		0.0001	0.098	0.0023	0.005	mg/L	98		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10550036	728302	3882015LCS_10550036	3882015		LCS	INITIAL	ZnTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8		0.1	0.1	0.0023	0.005	mg/L	102		85	115		
10550036	728302	SWBF0011-022221MS	3882016	SWBF0011-022221	MS	INITIAL	ZnTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.032	0.1	0.14	0.011	0.025	mg/L	107		70	130		
10550036	728302	3882014BLANK_10550036	3882014		MB	INITIAL	ZnTR	T	1	3/10/21	METHOD	3/16/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10550036	728302	SWBF0011-022221MSD	3882017	SWBF0011-022221	MSD	INITIAL	ZnTR	T	5	3/10/21	METHOD	3/16/21	EPA 200.8	0.032	0.1	0.14	0.011	0.025	mg/L	105	2	70	130	20	
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	AgDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	AgDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		0.05	0.044	0.000077	0.0005	mg/L	89		70	130	20	
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	AgDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		0.05	0.046	0.000077	0.0005	mg/L	91		85	115		
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	AgDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		0.05	0.045	0.000077	0.0005	mg/L	89		70	130		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10551370	730313	SWBF0021-031621MS	3892282	SWBF0021-031621	MS	INITIAL	AgTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.000043	0.05	0.046	0.000077	0.0005	mg/L	92		70	130		
10551370	730313	3892280BLANK_10551370	3892280		MB	INITIAL	AgTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10551370	730313	3892281LCS_10551370	3892281		LCS	INITIAL	AgTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8		0.05	0.049	0.000077	0.0005	mg/L	98		85	115		
10551370	730313	SWBF0021-031621MSD	3892283	SWBF0021-031621	MSD	INITIAL	AgTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.000043	0.05	0.045	0.000077	0.0005	mg/L	89	3	70	130	20	
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	AlDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		2	1.9	0.0071	0.02	mg/L	96		85	115		
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	AlDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	AlDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.025	2	1.9	0.0071	0.02	mg/L	95		70	130		
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	AlDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.025	2	1.9	0.0071	0.02	mg/L	92	3	70	130	20	
10551370	730771	SWBF0021-031621MS	3894618	SWBF0021-031621	MS	INITIAL	ALK_CaCO3	T	1	3/23/21	METHOD	3/23/21	SM 2320B	78.7	40	120	2	5	mg/L	102		80	120		
10551370	730771	SWBF0021-031621MSD	3894619	SWBF0021-031621	MSD	INITIAL	ALK_CaCO3	T	1	3/23/21	METHOD	3/23/21	SM 2320B	78.7	40	118	2	5	mg/L	99	1	80	120	20	
10551370	730771	3894613BLANK_10551370	3894613		MB	INITIAL	ALK_CaCO3	T	1	3/23/21	METHOD	3/23/21	SM 2320B			2	2	5	mg/L						
10551370	730771	3894614LCS_10551370	3894614		LCS	INITIAL	ALK_CaCO3	T	1	3/23/21	METHOD	3/23/21	SM 2320B		40	43	2	5	mg/L	108		90	110		
10551370	730771	3894615LCSD_10551370	3894615	894614LCS_1055137	LCSD	INITIAL	ALK_CaCO3	T	1	3/23/21	METHOD	3/23/21	SM 2320B		40	42.7	2	5	mg/L	107	1	90	110	20	
10551370	730313	SWBF0021-031621MSD	3892283	SWBF0021-031621	MSD	INITIAL	AlTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.14	2	2.2	0.0071	0.02	mg/L	102	2	70	130	20	
10551370	730313	3892281LCS_10551370	3892281		LCS	INITIAL	AlTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8		2	2	0.0071	0.02	mg/L	102		85	115		
10551370	730313	SWBF0021-031621MS	3892282	SWBF0021-031621	MS	INITIAL	AlTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.14	2	2.2	0.0071	0.02	mg/L	104		70	130		
10551370	730313	3892280BLANK_10551370	3892280		MB	INITIAL	AlTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	AsDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.0031	0.1	0.1	0.00014	0.0005	mg/L	98		70	130		
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	AsDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	AsDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		0.1	0.094	0.00014	0.0005	mg/L	94		85	115		
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	AsDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.0031	0.1	0.099	0.00014	0.0005	mg/L	96	2	70	130	20	
10551370	730313	SWBF0021-031621MSD	3892283	SWBF0021-031621	MSD	INITIAL	AsTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.0042	0.1	0.1	0.00014	0.0005	mg/L	97	2	70	130	20	
10551370	730313	3892280BLANK_10551370	3892280		MB	INITIAL	AsTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10551370	730313	3892281LCS_10551370	3892281		LCS	INITIAL	AsTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8		0.1	0.095	0.00014	0.0005	mg/L	95		85	115		
10551370	730313	SWBF0021-031621MS	3892282	SWBF0021-031621	MS	INITIAL	AsTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.0042	0.1	0.1	0.00014	0.0005	mg/L	99		70	130		
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	CaDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.015	0.015	0.04	mg/L						
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	CaDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		2	1.9	0.015	0.04	mg/L	96		85	115		
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	CaDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	238	2	240	0.015	0.04	mg/L	92	3	70	130	20	
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	CaDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	238	2	248	0.015	0.04	mg/L	475		70	130		
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	CdDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.000044	0.1	0.092	0.00003	0.00008	mg/L	91		70	130		
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	CdDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.000044	0.1	0.091	0.00003	0.00008	mg/L	91	1	70	130	20	
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	CdDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		0.1	0.093	0.00003	0.00008	mg/L	93		85	115		
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	CdDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10551370	730313	SWBF0021-031621MS	3892282	SWBF0021-031621	MS	INITIAL	CdTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.00009	0.1	0.092	0.00003	0.00008	mg/L	92		70	130		
10551370	730313	SWBF0021-031621MSD	3892283	SWBF0021-031621	MSD	INITIAL	CdTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.00009	0.1	0.089	0.00003	0.00008	mg/L	89	3	70	130	20	
10551370	730313	3892281LCS_10551370	3892281		LCS	INITIAL	CdTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8		0.1	0.095	0.00003	0.00008	mg/L	95		85	115		
10551370	730313	3892280BLANK_10551370	3892280		MB	INITIAL	CdTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	CuDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.0045	0.1	0.097	0.00043	0.001	mg/L	93		70	130		
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	CuDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	CuDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		0.1	0.096	0.00043	0.001	mg/L	96		85	115		
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	CuDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.0045	0.1	0.096	0.00043	0.001	mg/L	91	2	70	130	20	
10551370	730313	SWBF0021-031621MSD	3892283	SWBF0021-031621	MSD	INITIAL	CuTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.0083	0.1	0.098	0.00043	0.001	mg/L	90	2	70	130	20	
10551370	730313	SWBF0021-031621MS	3892282	SWBF0021-031621	MS	INITIAL	CuTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.0083	0.1	0.1	0.00043	0.001	mg/L	92		70	130		
10551370	730313	3892280BLANK_10551370	3892280		MB	INITIAL	CuTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10551370	730313	3892281LCS_10551370	3892281		LCS	INITIAL	CuTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8		0.1	0.097	0.00043	0.001	mg/L	97		85	115		
10551370	710002	SWBF0021-031621DUP	2858628	SWBF0021-031621	LR	INITIAL	DOC	D	1	3/23/21	METHOD	3/23/21	SM 5310C	4.8		4.8	0.3	1	mg/L					25	
10551370	710002	2858625BLANK_10551370	2858625		MB	INITIAL	DOC	D	1	3/23/21	METHOD	3/23/21	SM 5310C			0.37	0.3	1	mg/L						
10551370	710002	2858626LCS_10551370	2858626		LCS	INITIAL	DOC	D	1	3/23/21	METHOD	3/23/21	SM 5310C		5	5.4	0.3	1	mg/L	107		80	120		
10551370	710002	SWBF0021-031621MS	2858627	SWBF0021-031621	MS	INITIAL	DOC	D	1	3/23/21	METHOD	3/23/21	SM 5310C	4.8	5	10	0.3	1	mg/L	104		80	120		
10551370	710002	SWBF0021-031621MSD	2858629	SWBF0021-031621	MSD	INITIAL	DOC	D	1	3/23/21	METHOD	3/23/21	SM 5310C	4.8	5	10	0.3	1	mg/L	104		80	120	25	
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	FeDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		2	2	0.012	0.05	mg/L	99		85	115		
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	FeDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.073	2	2	0.012	0.05	mg/L	97		70	130		
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	FeDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.073	2	2	0.012	0.05	mg/L	96	2	70	130	20	
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	FeDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10551370	730313	SWBF0021-031621MSD	3892283	SWBF0021-031621	MSD	INITIAL	FeTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.3	2	2.2	0.012	0.05	mg/L	97	3	70	130	20	
10551370	730313	3892281LCS_10551370	3892281		LCS	INITIAL	FeTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8		2	2	0.012	0.05	mg/L	101		85	115		
10551370	730313	SWBF0021-031621MS	3892282	SWBF0021-031621	MS	INITIAL	FeTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.3	2	2.3	0.012	0.05	mg/L	100		70	130		
10551370	730313	3892280BLANK_10551370	3892280		MB	INITIAL	FeTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10551370	730852	3894874BLANK_10551370	3894874		MB	INITIAL	HgDis	D	1	3/23/21	METHOD	3/24/21	EPA 245.1			0.0000045	0.0000045	0.00001	mg/L						
10551370	730852	3894875LCS_10551370	3894875		LCS	INITIAL	HgDis	D	1	3/23/21	METHOD	3/24/21	EPA 245.1		0.0001	0.000099	0.0000045	0.00001	mg/L	99		85	115		
10551370	730852	SWBF0021-031621MSD	3894877	SWBF0021-031621	MSD	INITIAL	HgDis	D	1	3/23/21	METHOD	3/24/21	EPA 245.1		0.0001	0.0001	0.0000045	0.00001	mg/L	101	5	70	130	20	
10551370	730852	SWBF0021-031621MS	3894876	SWBF0021-031621	MS	INITIAL	HgDis	D	1	3/23/21	METHOD	3/24/21	EPA 245.1		0.0001	0.000099	0.0000045	0.00001	mg/L	96		70	130		
10551370	730672	SWBF0021-031621MS	3893994	SWBF0021-031621	MS	INITIAL	HgTR	T	1	3/22/21	METHOD	3/23/21	EPA 245.1		0.0001	0.00011	0.0000045	0.00001	mg/L	99		70	130		
10551370	730672	3893992BLANK_10551370	3893992		MB	INITIAL	HgTR	T	1	3/22/21	METHOD	3/23/21	EPA 245.1			0.0000045	0.0000045	0.00001	mg/L						
10551370	730672	3893993LCS_10551370	3893993		LCS	INITIAL	HgTR	T	1	3/22/21	METHOD	3/23/21	EPA 245.1		0.0001	0.0001	0.0000045	0.00001	mg/L	100		85	115		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10551370	730672	SWBF0021-031621MSD	3893995	SWBF0021-031621	MSD	INITIAL	HgTR	T	1	3/22/21	METHOD	3/23/21	EPA 245.1		0.0001	0.0001	0.0000045	0.00001	mg/L	98	1	70	130	20	
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	MgDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	11.8	2	14.2	0.0039	0.01	mg/L	124		70	130		
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	MgDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	11.8	2	13.6	0.0039	0.01	mg/L	92	5	70	130	20	
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	MgDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		2	1.9	0.0039	0.01	mg/L	96		85	115		
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	MgDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.0039	0.0039	0.01	mg/L						
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	MoDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	MoDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		0.1	0.095	0.000081	0.0005	mg/L	95		85	115		
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	MoDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.37	0.1	0.5	0.000081	0.0005	mg/L	122	2	70	130	20	
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	MoDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.37	0.1	0.5	0.000081	0.0005	mg/L	130		70	130		
10551370	730313	SWBF0021-031621MS	3892282	SWBF0021-031621	MS	REANALYSIS	MoTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.4	0.1	0.52	0.000081	0.0005	mg/L	118		70	130		
10551370	730313	SWBF0021-031621MSD	3892283	SWBF0021-031621	MSD	REANALYSIS	MoTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.4	0.1	0.51	0.000081	0.0005	mg/L	111	1	70	130	20	
10551370	730313	3892281LCS_10551370	3892281		LCS	REANALYSIS	MoTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8		0.1	0.1	0.000081	0.0005	mg/L	100		85	115		
10551370	730313	3892280BLANK_10551370	3892280		MB	REANALYSIS	MoTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10551370	730495	SWBF0021-031621MS	3893420	SWBF0021-031621	MS	INITIAL	NH3-N	T	1	3/21/21	METHOD	3/21/21	EPA 350.1	0.038	2.5	2.5	0.03	0.1	mg/L	98		90	110		
10551370	730495	3893416BLANK_10551370	3893416		MB	INITIAL	NH3-N	T	1	3/21/21	METHOD	3/21/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10551370	730495	3893417LCS_10551370	3893417		LCS	INITIAL	NH3-N	T	1	3/21/21	METHOD	3/21/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	100		90	110		
10551370	730495	SWBF0021-031621MSD	3893421	SWBF0021-031621	MSD	INITIAL	NH3-N	T	1	3/21/21	METHOD	3/21/21	EPA 350.1	0.038	2.5	2.5	0.03	0.1	mg/L	97	1	90	110	20	
10551370	730496	3893422BLANK_10551370	3893422		MB	INITIAL	NH3-N	T	1	3/21/21	METHOD	3/21/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10551370	730496	3893423LCS_10551370	3893423		LCS	INITIAL	NH3-N	T	1	3/21/21	METHOD	3/21/21	EPA 350.1		2.5	2.4	0.03	0.1	mg/L	97		90	110		
10551370	730496	SWBF0027-031621MS	3893424	SWBF0027-031621	MS	INITIAL	NH3-N	T	1	3/21/21	METHOD	3/21/21	EPA 350.1	0.014	2.5	2.7	0.03	0.1	mg/L	106		90	110		
10551370	730496	SWBF0027-031621MSD	3893425	SWBF0027-031621	MSD	INITIAL	NH3-N	T	1	3/21/21	METHOD	3/21/21	EPA 350.1	0.014	2.5	2.8	0.03	0.1	mg/L	111	5	90	110	20	
10551370	731719	3900462BLANK_10551370	3900462		MB	INITIAL	NO3/NO2-N	T	1	3/29/21	METHOD	3/29/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10551370	731719	3900463LCS_10551370	3900463		LCS	INITIAL	NO3/NO2-N	T	1	3/29/21	METHOD	3/29/21	SM 4500-NO3-H		2.5	2.7	0.078	0.2	mg/L	108		90	110		
10551370	731719	SWBF0021-031621MSD	3900465	SWBF0021-031621	MSD	INITIAL	NO3/NO2-N	T	1	3/29/21	METHOD	3/29/21	SM 4500-NO3-H	0.87	2.5	3.6	0.078	0.2	mg/L	108	5	80	120	20	
10551370	731719	SWBF0021-031621MS	3900464	SWBF0021-031621	MS	INITIAL	NO3/NO2-N	T	1	3/29/21	METHOD	3/29/21	SM 4500-NO3-H	0.87	2.5	3.4	0.078	0.2	mg/L	102		80	120		
10551370	730689	SWBF0021-031621MS	3894040	SWBF0021-031621	MS	INITIAL	P	T	1	3/22/21	SM4500-P-B	3/23/21	SM 4500-P-F	0.12	2.5	1.1	0.028	0.1	mg/L	39		80	120		
10551370	730689	SWBF0021-031621MSD	3894041	SWBF0021-031621	MSD	INITIAL	P	T	1	3/22/21	SM4500-P-B	3/23/21	SM 4500-P-F	0.12	2.5	1.1	0.028	0.1	mg/L	40	2	80	120	20	
10551370	730689	3894038BLANK_10551370	3894038		MB	INITIAL	P	T	1	3/22/21	SM4500-P-B	3/23/21	SM 4500-P-F			0.028	0.028	0.1	mg/L						
10551370	730689	3894039LCS_10551370	3894039		LCS	INITIAL	P	T	1	3/22/21	SM4500-P-B	3/23/21	SM 4500-P-F		2.5	2.5	0.028	0.1	mg/L	102		90	110		
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	PbDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.00018	0.1	0.095	0.000043	0.0001	mg/L	95	1	70	130	20	
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	PbDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.00018	0.1	0.096	0.000043	0.0001	mg/L	95		70	130		
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	PbDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		0.1	0.097	0.000043	0.0001	mg/L	97		85	115		
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	PbDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10551370	730313	3892280BLANK_10551370	3892280		MB	INITIAL	PbTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10551370	730313	3892281LCS_10551370	3892281		LCS	INITIAL	PbTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8		0.1	0.1	0.000043	0.0001	mg/L	100		85	115		
10551370	730313	SWBF0021-031621MSD	3892283	SWBF0021-031621	MSD	INITIAL	PbTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.0013	0.1	0.095	0.000043	0.0001	mg/L	94	3	70	130	20	
10551370	730313	SWBF0021-031621MS	3892282	SWBF0021-031621	MS	INITIAL	PbTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.0013	0.1	0.098	0.000043	0.0001	mg/L	97		70	130		
10551370	731045	SWBF0021-031621MSD	3895826	SWBF0021-031621	MSD	INITIAL	SO4	T	20	3/24/21	METHOD	3/24/21	ASTM D516-90-0	603	20	563	24.2	50	mg/L	0	7	80	120	30	
10551370	731045	3895822BLANK_10551370	3895822		MB	INITIAL	SO4	T	1	3/24/21	METHOD	3/24/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10551370	731045	3895823LCS_10551370	3895823		LCS	INITIAL	SO4	T	1	3/24/21	METHOD	3/24/21	ASTM D516-90-02		20	20.8	1.2	2.5	mg/L	104		80	120		
10551370	731045	3895824LCSD_10551370	3895824	895823LCS_1055137	LCSD	INITIAL	SO4	T	1	3/24/21	METHOD	3/24/21	ASTM D516-90-02		20	21.1	1.2	2.5	mg/L	105	1	80	120	20	
10551370	731045	SWBF0021-031621MS	3895825	SWBF0021-031621	MS	INITIAL	SO4	T	20	3/24/21	METHOD	3/24/21	ASTM D516-90-0	603	20	602	24.2	50	mg/L	0		80	120		
10551370	730926	SWBF0021-031621DUP	3895332	SWBF0021-031621	LR	INITIAL	TDS	D	1	3/23/21	METHOD	3/23/21	SM 2540C	970		1100	25	50	mg/L		13			5	
10551370	730926	3895329BLANK_10551370	3895329		MB	INITIAL	TDS	D	1	3/23/21	METHOD	3/23/21	SM 2540C			5	5	10	mg/L						
10551370	730926	3895330LCS_10551370	3895330		LCS	INITIAL	TDS	D	1	3/23/21	METHOD	3/23/21	SM 2540C		1000	1100	10	20	mg/L	110		80	120		
10551370	730928	3895343BLANK_10551370	3895343		MB	INITIAL	TDS	D	1	3/23/21	METHOD	3/23/21	SM 2540C			5	5	10	mg/L						
10551370	730928	3895344LCS_10551370	3895344		LCS	INITIAL	TDS	D	1	3/23/21	METHOD	3/23/21	SM 2540C		1000	1140	10	20	mg/L	114		80	120		
10551370	730928	SWBF0028-031621DUP	3895345	SWBF0028-031621	LR	INITIAL	TDS	D	1	3/23/21	METHOD	3/23/21	SM 2540C	186		191	5	10	mg/L		3			5	
10551370	710709	SWBF0021-031621MSD	2860466	SWBF0021-031621	MSD	INITIAL	TKN	T	1	3/26/21	METHOD	3/26/21	EPA 351.2	0.36	5	5.5	0.48	0.5	mg/L	102	1	90	110	10	
10551370	710709	2860462BLANK_10551370	2860462		MB	INITIAL	TKN	T	1	3/26/21	METHOD	3/26/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10551370	710709	2860463LCS_10551370	2860463		LCS	INITIAL	TKN	T	1	3/26/21	METHOD	3/26/21	EPA 351.2		5	5.2	0.48	0.5	mg/L	105		90	110		
10551370	710709	SWBF0021-031621DUP	2860464	SWBF0021-031621	LR	INITIAL	TKN	T	1	3/26/21	METHOD	3/26/21	EPA 351.2	0.36		0.29	0.48	0.5	mg/L					10	
10551370	710709	SWBF0021-031621MS	2860465	SWBF0021-031621	MS	INITIAL	TKN	T	1	3/26/21	METHOD	3/26/21	EPA 351.2	0.36	5	5.4	0.48	0.5	mg/L	101		90	110		
10551370	730929	3895354BLANK_10551370	3895354		MB	INITIAL	TSS	T	1	3/23/21	METHOD	3/23/21	SM 2540D			5	5	10	mg/L						
10551370	730929	3895355LCS_10551370	3895355		LCS	INITIAL	TSS	T	1	3/23/21	METHOD	3/23/21	SM 2540D		100	87.6	10	20	mg/L	88		80	120		
10551370	730929	SWBF0021-031621DUP	3895357	SWBF0021-031621	LR	INITIAL	TSS	T	1	3/23/21	METHOD	3/23/21	SM 2540D			0	5	10	mg/L					5	
10551370	730930	SWBF0030-031621DUP	3895363	SWBF0030-031621	LR	INITIAL	TSS	T	1	3/23/21	METHOD	3/23/21	SM 2540D			0	5	10	mg/L					5	
10551370	730930	3895361BLANK_10551370	3895361		MB	INITIAL	TSS	T	1	3/23/21	METHOD	3/23/21	SM 2540D			5	5	10	mg/L						
10551370	730930	3895362LCS_10551370	3895362		LCS	INITIAL	TSS	T	1	3/23/21	METHOD	3/23/21	SM 2540D		100	90.6	10	20	mg/L	91		80	120		
10551370	730311	3892272LCS_10551370	3892272		LCS	INITIAL	ZnDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8		0.1	0.098	0.0023	0.005	mg/L	98		85	115		
10551370	730311	SWBF0021-031621MS	3892273	SWBF0021-031621	MS	INITIAL	ZnDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.03	0.1	0.13	0.0023	0.005	mg/L	96		70	130		
10551370	730311	3892271BLANK_10551370	3892271		MB	INITIAL	ZnDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10551370	730311	SWBF0021-031621MSD	3892274	SWBF0021-031621	MSD	INITIAL	ZnDis	D	1	3/22/21	METHOD	3/29/21	EPA 200.8	0.03	0.1	0.12	0.0023	0.005	mg/L	93	2	70	130	20	
10551370	730313	SWBF0021-031621MS	3892282	SWBF0021-031621	MS	INITIAL	ZnTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.037	0.1	0.13	0.0023	0.005	mg/L	92		70	130		
10551370	730313	3892281LCS_10551370	3892281		LCS	INITIAL	ZnTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8		0.1	0.1	0.0023	0.005	mg/L	102		85	115		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10551370	730313	SWBF0021-031621MSD	3892283	SWBF0021-031621	MSD	INITIAL	ZnTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8	0.037	0.1	0.13	0.0023	0.005	mg/L	90	1	70	130	20	
10551370	730313	3892280BLANK_10551370	3892280		MB	INITIAL	ZnTR	T	1	3/23/21	METHOD	3/30/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	AgDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		0.05	0.05	0.000077	0.0005	mg/L	101		85	115		
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	AgDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	AgDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.000058	0.05	0.045	0.000077	0.0005	mg/L	90		70	130		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	AgDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.000058	0.05	0.044	0.000077	0.0005	mg/L	88	2	70	130	20	
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	AgDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.0001	0.05	0.052	0.000077	0.0005	mg/L	104	4	70	130	20	
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	AgDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.0001	0.05	0.054	0.000077	0.0005	mg/L	108		70	130		
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	AgDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	AgDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.05	0.051	0.000077	0.0005	mg/L	103		85	115		
10555588	736052	3924329BLANK_10555588	3924329		MB	INITIAL	AgTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10555588	736052	3924330LCS_10555588	3924330		LCS	INITIAL	AgTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8		0.05	0.048	0.000077	0.0005	mg/L	97		85	115		
10555588	736052	SWBF0031-041321MS	3924331	SWBF0031-041321	MS	INITIAL	AgTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.00007	0.05	0.046	0.000077	0.0005	mg/L	92		70	130		
10555588	736052	SWBF0031-041321MSD	3924332	SWBF0031-041321	MSD	INITIAL	AgTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.00007	0.05	0.046	0.000077	0.0005	mg/L	91		70	130	20	
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	AlDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	AlDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		2	2	0.0071	0.02	mg/L	101		85	115		
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	AlDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.025	2	2.1	0.0071	0.02	mg/L	102		70	130		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	AlDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.025	2	2	0.0071	0.02	mg/L	101	1	70	130	20	
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	AlDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.018	2	1.9	0.0071	0.02	mg/L	94	3	70	130	20	
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	AlDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.018	2	2	0.0071	0.02	mg/L	97		70	130		
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	AlDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	AlDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		2	1.9	0.0071	0.02	mg/L	95		85	115		
10555588	736354	SWBF0031-041321MS	3925745	SWBF0031-041321	MS	INITIAL	ALK_CaCO3	T	1	4/21/21	METHOD	4/21/21	SM 2320B	75.3	40	116	2	5	mg/L	103		80	120		
10555588	736354	SWBF0031-041321MSD	3925746	SWBF0031-041321	MSD	INITIAL	ALK_CaCO3	T	1	4/21/21	METHOD	4/21/21	SM 2320B	75.3	40	116	2	5	mg/L	102		80	120	20	
10555588	736354	3925740BLANK_10555588	3925740		MB	INITIAL	ALK_CaCO3	T	1	4/21/21	METHOD	4/21/21	SM 2320B			2	2	5	mg/L						
10555588	736354	3925741LCS_10555588	3925741		LCS	INITIAL	ALK_CaCO3	T	1	4/21/21	METHOD	4/21/21	SM 2320B		40	42.7	2	5	mg/L	107		90	110		
10555588	736354	3925742LCSD_10555588	3925742	925741LCS_1055558	LCSD	INITIAL	ALK_CaCO3	T	1	4/21/21	METHOD	4/21/21	SM 2320B		40	43.3	2	5	mg/L	108	1	90	110	20	
10555588	736052	SWBF0031-041321MSD	3924332	SWBF0031-041321	MSD	INITIAL	AlTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.13	2	2.2	0.0071	0.02	mg/L	101		70	130	20	
10555588	736052	SWBF0031-041321MS	3924331	SWBF0031-041321	MS	INITIAL	AlTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.13	2	2.2	0.0071	0.02	mg/L	102		70	130		
10555588	736052	3924330LCS_10555588	3924330		LCS	INITIAL	AlTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8		2	2.1	0.0071	0.02	mg/L	103		85	115		
10555588	736052	3924329BLANK_10555588	3924329		MB	INITIAL	AlTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	AsDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	AsDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		0.1	0.096	0.00014	0.0005	mg/L	96		85	115		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	AsDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.0024	0.1	0.097	0.00014	0.0005	mg/L	94	1	70	130	20	
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	AsDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.0024	0.1	0.098	0.00014	0.0005	mg/L	95		70	130		
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	AsDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.095	0.00014	0.0005	mg/L	95	4	70	130	20	
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	AsDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	AsDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.096	0.00014	0.0005	mg/L	96		85	115		
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	AsDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.099	0.00014	0.0005	mg/L	99		70	130		
10555588	736052	3924329BLANK_10555588	3924329		MB	INITIAL	AsTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10555588	736052	3924330LCS_10555588	3924330		LCS	INITIAL	AsTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8		0.1	0.093	0.00014	0.0005	mg/L	93		85	115		
10555588	736052	SWBF0031-041321MSD	3924332	SWBF0031-041321	MSD	INITIAL	AsTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.0033	0.1	0.099	0.00014	0.0005	mg/L	96	1	70	130	20	
10555588	736052	SWBF0031-041321MS	3924331	SWBF0031-041321	MS	INITIAL	AsTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.0033	0.1	0.1	0.00014	0.0005	mg/L	97		70	130		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	CaDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	295	2	304	0.015	0.04	mg/L	457	1	70	130	20	
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	CaDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	295	2	306	0.015	0.04	mg/L	544		70	130		
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	CaDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		2	2	0.015	0.04	mg/L	100		85	115		
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	CaDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.027	0.015	0.04	mg/L						
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	CaDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.015	0.015	0.04	mg/L						
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	CaDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		2	2	0.015	0.04	mg/L	100		85	115		
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	CaDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.0041	2	2	0.015	0.04	mg/L	100	3	70	130	20	
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	CaDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.0041	2	2.1	0.015	0.04	mg/L	103		70	130		
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	CdDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		0.1	0.098	0.00003	0.00008	mg/L	98		85	115		
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	CdDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	CdDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.000093	0.1	0.092	0.00003	0.00008	mg/L	92		70	130		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	CdDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.000093	0.1	0.091	0.00003	0.00008	mg/L	91	1	70	130	20	
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	CdDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.000015	0.1	0.094	0.00003	0.00008	mg/L	94	4	70	130	20	
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	CdDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.000015	0.1	0.097	0.00003	0.00008	mg/L	97		70	130		
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	CdDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.093	0.00003	0.00008	mg/L	93		85	115		
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	CdDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10555588	736052	3924330LCS_10555588	3924330		LCS	INITIAL	CdTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8		0.1	0.095	0.00003	0.00008	mg/L	95		85	115		
10555588	736052	3924329BLANK_10555588	3924329		MB	INITIAL	CdTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10555588	736052	SWBF0031-041321MS	3924331	SWBF0031-041321	MS	INITIAL	CdTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.000095	0.1	0.093	0.00003	0.00008	mg/L	93		70	130		
10555588	736052	SWBF0031-041321MSD	3924332	SWBF0031-041321	MSD	INITIAL	CdTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.000095	0.1	0.093	0.00003	0.00008	mg/L	93		70	130	20	
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	CuDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		0.1	0.1	0.00043	0.001	mg/L	103		85	115		
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	CuDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	CuDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.0025	0.1	0.099	0.00043	0.001	mg/L	96		70	130		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	CuDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.0025	0.1	0.098	0.00043	0.001	mg/L	96		70	130	20	
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	CuDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.00017	0.1	0.1	0.00043	0.001	mg/L	102	3	70	130	20	
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	CuDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.00017	0.1	0.11	0.00043	0.001	mg/L	105		70	130		
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	CuDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	CuDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.1	0.00043	0.001	mg/L	102		85	115		
10555588	736052	3924329BLANK_10555588	3924329		MB	INITIAL	CuTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10555588	736052	3924330LCS_10555588	3924330		LCS	INITIAL	CuTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8		0.1	0.1	0.00043	0.001	mg/L	104		85	115		
10555588	736052	SWBF0031-041321MSD	3924332	SWBF0031-041321	MSD	INITIAL	CuTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.0064	0.1	0.1	0.00043	0.001	mg/L	98	1	70	130	20	
10555588	736052	SWBF0031-041321MS	3924331	SWBF0031-041321	MS	INITIAL	CuTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.0064	0.1	0.11	0.00043	0.001	mg/L	99		70	130		
10555588	715652	2879052BLANK_10555588	2879052		MB	INITIAL	DOC	D	1	4/20/21	METHOD	4/20/21	SM 5310C			0.3	0.3	1	mg/L						
10555588	715652	2879053LCS_10555588	2879053		LCS	INITIAL	DOC	D	1	4/20/21	METHOD	4/20/21	SM 5310C		5	5.2	0.3	1	mg/L	103		80	120		
10555588	715652	SWBF0031-041321DUP	2879055	SWBF0031-041321	LR	INITIAL	DOC	D	1	4/20/21	METHOD	4/20/21	SM 5310C	3.4		3.4	0.3	1	mg/L		1			25	
10555588	715652	SWBF0031-041321MSD	2879056	SWBF0031-041321	MSD	INITIAL	DOC	D	1	4/20/21	METHOD	4/20/21	SM 5310C	3.4	5	8.5	0.3	1	mg/L	101	2	80	120	25	
10555588	715652	SWBF0031-041321MS	2879054	SWBF0031-041321	MS	INITIAL	DOC	D	1	4/20/21	METHOD	4/20/21	SM 5310C	3.4	5	8.7	0.3	1	mg/L	105		80	120		
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	FeDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	FeDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	106		85	115		
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	FeDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.024	2	2.1	0.012	0.05	mg/L	103		70	130		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	FeDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.024	2	2.1	0.012	0.05	mg/L	102	1	70	130	20	
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	FeDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.0026	2	2.1	0.012	0.05	mg/L	106	3	70	130	20	
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	FeDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.0026	2	2.2	0.012	0.05	mg/L	109		70	130		
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	FeDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	FeDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	106		85	115		
10555588	736052	SWBF0031-041321MSD	3924332	SWBF0031-041321	MSD	INITIAL	FeTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.34	2	2.4	0.012	0.05	mg/L	103	1	70	130	20	
10555588	736052	3924329BLANK_10555588	3924329		MB	INITIAL	FeTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10555588	736052	3924330LCS_10555588	3924330		LCS	INITIAL	FeTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	107		85	115		
10555588	736052	SWBF0031-041321MS	3924331	SWBF0031-041321	MS	INITIAL	FeTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.34	2	2.4	0.012	0.05	mg/L	104		70	130		
10555588	735974	SWBF0031-041321MSD	3923686	SWBF0031-041321	MSD	INITIAL	HgDis	D	1	4/19/21	EPA 245.1	4/20/21	EPA 245.1	0.00001	0.0001	0.0001	0.0000045	0.00001	mg/L	90	2	70	130	20	
10555588	735974	3923683BLANK_10555588	3923683		MB	INITIAL	HgDis	D	1	4/19/21	EPA 245.1	4/20/21	EPA 245.1			0.0000045	0.0000045	0.00001	mg/L						
10555588	735974	3923684LCS_10555588	3923684		LCS	INITIAL	HgDis	D	1	4/19/21	EPA 245.1	4/20/21	EPA 245.1		0.0001	0.000095	0.0000045	0.00001	mg/L	95		85	115		
10555588	735974	SWBF0031-041321MS	3923685	SWBF0031-041321	MS	INITIAL	HgDis	D	1	4/19/21	EPA 245.1	4/20/21	EPA 245.1	0.00001	0.0001	0.000098	0.0000045	0.00001	mg/L	88		70	130		
10555588	735975	SWBF0031-041321MS	3923691	SWBF0031-041321	MS	INITIAL	HgTR	T	1	4/19/21	EPA 245.1	4/20/21	EPA 245.1		0.0001	0.0001	0.0000045	0.00001	mg/L	100		70	130		
10555588	735975	3923689BLANK_10555588	3923689		MB	INITIAL	HgTR	T	1	4/19/21	EPA 245.1	4/20/21	EPA 245.1			0.0000045	0.0000045	0.00001	mg/L						
10555588	735975	3923690LCS_10555588	3923690		LCS	INITIAL	HgTR	T	1	4/19/21	EPA 245.1	4/20/21	EPA 245.1		0.0001	0.000098	0.0000045	0.00001	mg/L	98		85	115		
10555588	735975	SWBF0031-041321MSD	3923692	SWBF0031-041321	MSD	INITIAL	HgTR	T	1	4/19/21	EPA 245.1	4/20/21	EPA 245.1		0.0001	0.0001	0.0000045	0.00001	mg/L	96	4	70	130	20	
10555588	737104	3930660BLANK_10555588	3930660		MB	INITIAL	HgTR	T	1	4/23/21	EPA 245.1	4/26/21	EPA 245.1			0.0000045	0.0000045	0.00001	mg/L						[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10555588	737104	3930661LCS_10555588	3930661		LCS	INITIAL	HgTR	T	1	4/23/21	EPA 245.1	4/26/21	EPA 245.1		0.0001	0.000097	0.0000045	0.00001	mg/L	97		85	115		[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10555588	737104	3931796LCSD_10555588	3931796	930661LCS_1055558	LCSD	INITIAL	HgTR	T	1	4/23/21	EPA 245.1	4/26/21	EPA 245.1		0.0001	0.000097	0.0000045	0.00001	mg/L	97		85	115	20	[M5] - A matrix spike/matrix spike duplicate was not performed for this batch
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	MgDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.0039	0.0039	0.01	mg/L						
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	MgDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		2	2.1	0.0039	0.01	mg/L	103		85	115		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	MgDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	11.1	2	13.7	0.0039	0.01	mg/L	128	1	70	130	20	
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	MgDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	11.1	2	13.9	0.0039	0.01	mg/L	137		70	130		
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	MgDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.004	2	2.1	0.0039	0.01	mg/L	104		70	130		
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	MgDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.004	2	2	0.0039	0.01	mg/L	101	3	70	130	20	
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	MgDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.0039	0.0039	0.01	mg/L						
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	MgDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		2	2	0.0039	0.01	mg/L	101		85	115		
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	MoDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	MoDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		0.1	0.1	0.000081	0.0005	mg/L	100		85	115		
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	MoDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.48	0.1	0.62	0.000081	0.0005	mg/L	139		70	130		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	MoDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.48	0.1	0.61	0.000081	0.0005	mg/L	127	2	70	130	20	
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	MoDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.093	0.000081	0.0005	mg/L	93		85	115		
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	MoDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	MoDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.00013	0.1	0.094	0.000081	0.0005	mg/L	94	4	70	130	20	
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	MoDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.00013	0.1	0.098	0.000081	0.0005	mg/L	98		70	130		
10555588	736052	SWBF0031-041321MSD	3924332	SWBF0031-041321	MSD	INITIAL	MoTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.5	0.1	0.6	0.000081	0.0005	mg/L	104	1	70	130	20	
10555588	736052	SWBF0031-041321MS	3924331	SWBF0031-041321	MS	INITIAL	MoTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.5	0.1	0.61	0.000081	0.0005	mg/L	107		70	130		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10555588	736052	3924330LCS_10555588	3924330		LCS	INITIAL	MoTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8		0.1	0.1	0.000081	0.0005	mg/L	102		85	115		
10555588	736052	3924329BLANK_10555588	3924329		MB	INITIAL	MoTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10555588	735769	3922921BLANK_10555588	3922921		MB	INITIAL	NH3-N	T	1	4/18/21	METHOD	4/18/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10555588	735769	3922922LCS_10555588	3922922		LCS	INITIAL	NH3-N	T	1	4/18/21	METHOD	4/18/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	100		90	110		
10555588	735769	SWBF0031-041321MS	3922925	SWBF0031-041321	MS	INITIAL	NH3-N	T	1	4/18/21	METHOD	4/18/21	EPA 350.1	0.084	2.5	2.6	0.03	0.1	mg/L	100		90	110		
10555588	735769	SWBF0031-041321MSD	3922926	SWBF0031-041321	MSD	INITIAL	NH3-N	T	1	4/18/21	METHOD	4/18/21	EPA 350.1	0.084	2.5	2.5	0.03	0.1	mg/L	95	5	90	110	20	
10555588	738043	3935850BLANK_10555588	3935850		MB	INITIAL	NO3/NO2-N	T	1	4/28/21	METHOD	4/28/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10555588	738043	3935851LCS_10555588	3935851		LCS	INITIAL	NO3/NO2-N	T	1	4/28/21	METHOD	4/28/21	SM 4500-NO3-H		2.5	2.4	0.078	0.2	mg/L	97		90	110		
10555588	738043	SWBF0031-041321MSD	3935853	SWBF0031-041321	MSD	INITIAL	NO3/NO2-N	T	1	4/28/21	METHOD	4/28/21	SM 4500-NO3-H	0.93	2.5	3.4	0.078	0.2	mg/L	100	2	80	120	20	
10555588	738043	SWBF0031-041321MS	3935852	SWBF0031-041321	MS	INITIAL	NO3/NO2-N	T	1	4/28/21	METHOD	4/28/21	SM 4500-NO3-H	0.93	2.5	3.5	0.078	0.2	mg/L	103		80	120		
10555588	737263	SWBF0031-041321MS	3932106	SWBF0031-041321	MS	INITIAL	P	T	1	4/24/21	SM4500-P-B	4/25/21	SM 4500-P-F		2.5	2.4	0.05	0.1	mg/L	96		80	120		
10555588	737263	SWBF0031-041321MSD	3932107	SWBF0031-041321	MSD	INITIAL	P	T	1	4/24/21	SM4500-P-B	4/25/21	SM 4500-P-F		2.5	2.5	0.05	0.1	mg/L	98	2	80	120	20	
10555588	737263	3932102BLANK_10555588	3932102		MB	INITIAL	P	T	1	4/24/21	SM4500-P-B	4/25/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10555588	737263	3932103LCS_10555588	3932103		LCS	INITIAL	P	T	1	4/24/21	SM4500-P-B	4/25/21	SM 4500-P-F		2.5	2.4	0.05	0.1	mg/L	96		90	110		
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	PbDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	PbDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		0.1	0.1	0.000043	0.0001	mg/L	104		85	115		
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	PbDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.000084	0.1	0.1	0.000043	0.0001	mg/L	102		70	130		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	PbDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.000084	0.1	0.1	0.000043	0.0001	mg/L	101	1	70	130	20	
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	PbDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.1	0.000043	0.0001	mg/L	105		70	130		
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	PbDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	PbDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.1	0.000043	0.0001	mg/L	104		85	115		
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	PbDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.1	0.000043	0.0001	mg/L	103	1	70	130	20	
10555588	736052	3924330LCS_10555588	3924330		LCS	INITIAL	PbTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8		0.1	0.11	0.000043	0.0001	mg/L	107		85	115		
10555588	736052	3924329BLANK_10555588	3924329		MB	INITIAL	PbTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10555588	736052	SWBF0031-041321MSD	3924332	SWBF0031-041321	MSD	INITIAL	PbTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.001	0.1	0.1	0.000043	0.0001	mg/L	102	1	70	130	20	
10555588	736052	SWBF0031-041321MS	3924331	SWBF0031-041321	MS	INITIAL	PbTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.001	0.1	0.1	0.000043	0.0001	mg/L	103		70	130		
10555588	738369	SWBF0031-041321MSD	3937625	SWBF0031-041321	MSD	INITIAL	SO4	T	50	4/29/21	METHOD	4/29/21	ASTM D516-90-0	753	1000	1580	60.5	125	mg/L	82	2	80	120	30	
10555588	738369	SWBF0031-041321MS	3937624	SWBF0031-041321	MS	INITIAL	SO4	T	50	4/29/21	METHOD	4/29/21	ASTM D516-90-0	753	1000	1600	60.5	125	mg/L	85		80	120		
10555588	738369	3937619BLANK_10555588	3937619		MB	INITIAL	SO4	T	1	4/29/21	METHOD	4/29/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10555588	738369	3937620LCS_10555588	3937620		LCS	INITIAL	SO4	T	1	4/29/21	METHOD	4/29/21	ASTM D516-90-02		20	18.6	1.2	2.5	mg/L	93		80	120		
10555588	738369	3937621LCSD_10555588	3937621	937620LCS_1055558	LCSD	INITIAL	SO4	T	1	4/29/21	METHOD	4/29/21	ASTM D516-90-02		20	18.7	1.2	2.5	mg/L	93		80	120	20	
10555588	736182	3924763BLANK_10555588	3924763		MB	INITIAL	TDS	D	1	4/20/21	METHOD	4/20/21	SM 2540C			5	5	10	mg/L						
10555588	736182	3924764LCS_10555588	3924764		LCS	INITIAL	TDS	D	1	4/20/21	METHOD	4/20/21	SM 2540C		1000	1120	10	20	mg/L	112		80	120		
10555588	736182	SWBF0031-041321DUP	3924766	SWBF0031-041321	LR	INITIAL	TDS	D	1	4/20/21	METHOD	4/20/21	SM 2540C	1230		1210	25	50	mg/L		2			5	
10555588	736184	SWBF0038-041321DUP	3924769	SWBF0038-041321	LR	INITIAL	TDS	D	1	4/20/21	METHOD	4/20/21	SM 2540C	207		209	5	10	mg/L		1			5	
10555588	736184	SWBF0039-041321DUP	3924770	SWBF0039-041321	LR	INITIAL	TDS	D	1	4/20/21	METHOD	4/20/21	SM 2540C	213		210	5	10	mg/L		1			5	
10555588	736184	3924767BLANK_10555588	3924767		MB	INITIAL	TDS	D	1	4/20/21	METHOD	4/20/21	SM 2540C			5	5	10	mg/L						
10555588	736184	3924768LCS_10555588	3924768		LCS	INITIAL	TDS	D	1	4/20/21	METHOD	4/20/21	SM 2540C		1000	1140	10	20	mg/L	114		80	120		
10555588	716412	SWBF0031-041321MS	2881923	SWBF0031-041321	MS	INITIAL	TKN	T	1	4/23/21	METHOD	4/27/21	EPA 351.2	9.2	5	11	0.48	0.5	mg/L	36		90	110		
10555588	716412	SWBF0031-041321DUP	2881922	SWBF0031-041321	LR	INITIAL	TKN	T	1	4/23/21	METHOD	4/27/21	EPA 351.2	9.2		9.2	0.48	0.5	mg/L					10	
10555588	716412	2881914BLANK_10555588	2881914		MB	INITIAL	TKN	T	1	4/23/21	METHOD	4/27/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10555588	716412	2881915LCS_10555588	2881915		LCS	INITIAL	TKN	T	1	4/23/21	METHOD	4/27/21	EPA 351.2		5	4.9	0.48	0.5	mg/L	99		90	110		
10555588	716412	SWBF0031-041321MSD	2881924	SWBF0031-041321	MSD	INITIAL	TKN	T	1	4/23/21	METHOD	4/27/21	EPA 351.2	9.2	5	11	0.48	0.5	mg/L	36		90	110	10	
10555588	736185	3924777BLANK_10555588	3924777		MB	INITIAL	TSS	T	1	4/20/21	METHOD	4/20/21	SM 2540D			5	5	10	mg/L						
10555588	736185	3924778LCS_10555588	3924778		LCS	INITIAL	TSS	T	1	4/20/21	METHOD	4/20/21	SM 2540D		100	105	10	20	mg/L	105		80	120		
10555588	736185	SWBF0031-041321DUP	3924780	SWBF0031-041321	LR	INITIAL	TSS	T	1	4/20/21	METHOD	4/20/21	SM 2540D	3.9		2.1	5	10	mg/L					5	
10555588	736051	3924326LCS_10555588	3924326		LCS	INITIAL	ZnDis	D	1	4/22/21	EPA 200.8	5/3/21	EPA 200.8		0.1	0.097	0.0023	0.005	mg/L	97		85	115		
10555588	736051	3924325BLANK_10555588	3924325		MB	INITIAL	ZnDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10555588	736051	SWBF0031-041321MS	3924327	SWBF0031-041321	MS	INITIAL	ZnDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.022	0.1	0.11	0.0023	0.005	mg/L	92		70	130		
10555588	736051	SWBF0031-041321MSD	3924328	SWBF0031-041321	MSD	INITIAL	ZnDis	D	1	4/22/21	EPA 200.8	4/28/21	EPA 200.8	0.022	0.1	0.11	0.0023	0.005	mg/L	92		70	130	20	
10555588	739077	SWBF0034-041321MSD	3941854	SWBF0034-041321	MSD	INITIAL	ZnDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.00078	0.1	0.096	0.0023	0.005	mg/L	95	4	70	130	20	
10555588	739077	3941852LCS_10555588	3941852		LCS	INITIAL	ZnDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8		0.1	0.097	0.0023	0.005	mg/L	97		85	115		
10555588	739077	3941851BLANK_10555588	3941851		MB	INITIAL	ZnDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10555588	739077	SWBF0034-041321MS	3941853	SWBF0034-041321	MS	INITIAL	ZnDis	D	1	5/3/21	EPA 200.8	5/4/21	EPA 200.8	0.00078	0.1	0.099	0.0023	0.005	mg/L	98		70	130		
10555588	736052	SWBF0031-041321MSD	3924332	SWBF0031-041321	MSD	INITIAL	ZnTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.03	0.1	0.12	0.0023	0.005	mg/L	91	1	70	130	20	
10555588	736052	SWBF0031-041321MS	3924331	SWBF0031-041321	MS	INITIAL	ZnTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8	0.03	0.1	0.12	0.0023	0.005	mg/L	92		70	130		
10555588	736052	3924329BLANK_10555588	3924329		MB	INITIAL	ZnTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10555588	736052	3924330LCS_10555588	3924330		LCS	INITIAL	ZnTR	T	1	4/21/21	EPA 200.8	4/28/21	EPA 200.8		0.1	0.098	0.0023	0.005	mg/L	98		85	115		
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	AgDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	AgDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.05	0.047	0.000077	0.0005	mg/L	94		85	115		
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	AgDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.000081	0.05	0.045	0.000077	0.0005	mg/L	90	2	70	130	20	
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	AgDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.000081	0.05	0.044	0.000077	0.0005	mg/L	88		70	130		
10561813	747567	3987428BLANK_10561813	3987428		MB	INITIAL	AgDis	D	1	6/9/21	EPA 200.8	6/14/21	EPA 200.8			0.00014	0.000077	0.0005	mg/L						
10561813	747567	3987429LCS_10561813	3987429		LCS	INITIAL	AgDis	D	1	6/9/21	EPA 200.8	6/14/21	EPA 200.8		0.05	0.053	0.000077	0.0005	mg/L	106		85	115		
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	INITIAL	AgDis	D	5	6/9/21	EPA 200.8	6/14/21	EPA 200.8	0.00069	0.05	0.055	0.00038	0.0025	mg/L	109		70	130		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	INITIAL	AgDis	D	5	6/9/21	EPA 200.8	6/14/21	EPA 200.8	0.00069	0.05	0.054	0.00038	0.0025	mg/L	106	3	70	130	20	
10561813	745715	SWBF0041-051921MSD	3977718	SWBF0041-051921	MSD	INITIAL	AgTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.00024	0.05	0.05	0.000077	0.0005	mg/L	100		70	130	20	
10561813	745715	3977716LCS_10561813	3977716		LCS	INITIAL	AgTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.05	0.055	0.000077	0.0005	mg/L	111		85	115		
10561813	745715	3977715BLANK_10561813	3977715		MB	INITIAL	AgTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10561813	745715	SWBF0041-051921MS	3977717	SWBF0041-051921	MS	INITIAL	AgTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.00024	0.05	0.05	0.000077	0.0005	mg/L	100		70	130		
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	AlDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.021	2	2	0.0071	0.02	mg/L	97	1	70	130	20	
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	AlDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	AlDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		2	2	0.0071	0.02	mg/L	101		85	115		
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	AlDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.021	2	1.9	0.0071	0.02	mg/L	96		70	130		
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	AlDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.0044	2	2	0.0071	0.02	mg/L	101		70	130		
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	AlDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.0044	2	2	0.0071	0.02	mg/L	99	2	70	130	20	
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	AlDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		2	2	0.0071	0.02	mg/L	100		85	115		
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	AlDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10561813	745484	3976686BLANK_10561813	3976686		MB	INITIAL	ALK_CaCO3	T	1	5/29/21	METHOD	5/29/21	SM 2320B			2	2	5	mg/L						
10561813	745484	3976687LCS_10561813	3976687		LCS	INITIAL	ALK_CaCO3	T	1	5/29/21	METHOD	5/29/21	SM 2320B		40	42.4	2	5	mg/L	106		90	110		
10561813	745484	3976688LCSD_10561813	3976688	976687LCS_1056181	LCSD	INITIAL	ALK_CaCO3	T	1	5/29/21	METHOD	5/29/21	SM 2320B		40	42.8	2	5	mg/L	107	1	90	110	20	
10561813	745890	3978767BLANK_10561813	3978767		MB	INITIAL	ALK_CaCO3	T	1	6/1/21	METHOD	6/1/21	SM 2320B			2	2	5	mg/L						
10561813	745890	3978768LCS_10561813	3978768		LCS	INITIAL	ALK_CaCO3	T	1	6/1/21	METHOD	6/1/21	SM 2320B		40	43	2	5	mg/L	107		90	110		
10561813	745890	3978769LCSD_10561813	3978769	978768LCS_1056181	LCSD	INITIAL	ALK_CaCO3	T	1	6/1/21	METHOD	6/1/21	SM 2320B		40	43	2	5	mg/L	107		90	110	20	
10561813	745892	3978782BLANK_10561813	3978782		MB	INITIAL	ALK_CaCO3	T	1	6/2/21	METHOD	6/2/21	SM 2320B			2	2	5	mg/L						
10561813	745892	3978783LCS_10561813	3978783		LCS	INITIAL	ALK_CaCO3	T	1	6/2/21	METHOD	6/2/21	SM 2320B		40	43	2	5	mg/L	108		90	110		
10561813	745892	3978784LCSD_10561813	3978784	978783LCS_1056181	LCSD	INITIAL	ALK_CaCO3	T	1	6/2/21	METHOD	6/2/21	SM 2320B		40	43	2	5	mg/L	108		90	110	20	
10561813	745892	SWBF0041-051921MSD	3978788	SWBF0041-051921	MSD	INITIAL	ALK_CaCO3	T	1	6/2/21	METHOD	6/2/21	SM 2320B	91.5	40	117	2	5	mg/L	63	3	80	120	20	
10561813	745892	SWBF0041-051921MS	3978787	SWBF0041-051921	MS	INITIAL	ALK_CaCO3	T	1	6/2/21	METHOD	6/2/21	SM 2320B	91.5	40	120	2	5	mg/L	71		80	120		
10561813	745895	3978802BLANK_10561813	3978802		MB	INITIAL	ALK_CaCO3	T	1	6/2/21	METHOD	6/2/21	SM 2320B			2	2	5	mg/L						
10561813	745895	3978803LCS_10561813	3978803		LCS	INITIAL	ALK_CaCO3	T	1	6/2/21	METHOD	6/2/21	SM 2320B		40	43.2	2	5	mg/L	108		90	110		
10561813	745895	3978804LCSD_10561813	3978804	978803LCS_1056181	LCSD	INITIAL	ALK_CaCO3	T	1	6/2/21	METHOD	6/2/21	SM 2320B		40	43	2	5	mg/L	108		90	110	20	
10561813	745715	3977715BLANK_10561813	3977715		MB	INITIAL	AlTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.0082	0.0071	0.02	mg/L						
10561813	745715	3977716LCS_10561813	3977716		LCS	INITIAL	AlTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		2	2.1	0.0071	0.02	mg/L	103		85	115		
10561813	745715	SWBF0041-051921MS	3977717	SWBF0041-051921	MS	INITIAL	AlTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.063	2	2.2	0.0071	0.02	mg/L	108		70	130		
10561813	745715	SWBF0041-051921MSD	3977718	SWBF0041-051921	MSD	INITIAL	AlTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.063	2	2.2	0.0071	0.02	mg/L	105	3	70	130	20	
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	AsDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	AsDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.093	0.00014	0.0005	mg/L	93		85	115		
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	AsDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.0027	0.1	0.098	0.00014	0.0005	mg/L	95		70	130		
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	AsDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.0027	0.1	0.099	0.00014	0.0005	mg/L	96	1	70	130	20	
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	AsDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.000027	0.1	0.099	0.00014	0.0005	mg/L	99		70	130		
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	AsDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.000027	0.1	0.098	0.00014	0.0005	mg/L	98		70	130	20	
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	AsDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	AsDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		0.1	0.098	0.00014	0.0005	mg/L	98		85	115		
10561813	745715	SWBF0041-051921MS	3977717	SWBF0041-051921	MS	INITIAL	AsTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.0034	0.1	0.11	0.00014	0.0005	mg/L	105		70	130		
10561813	745715	SWBF0041-051921MSD	3977718	SWBF0041-051921	MSD	INITIAL	AsTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.0034	0.1	0.11	0.00014	0.0005	mg/L	104	1	70	130	20	
10561813	745715	3977715BLANK_10561813	3977715		MB	INITIAL	AsTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10561813	745715	3977716LCS_10561813	3977716		LCS	INITIAL	AsTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.1	0.00014	0.0005	mg/L	102		85	115		
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	CaDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.023	0.015	0.04	mg/L						
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	CaDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		2	2	0.015	0.04	mg/L	101		85	115		
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	CaDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	211	2	189	0.015	0.04	mg/L	0		70	130		
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	CaDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	211	2	187	0.015	0.04	mg/L	0	1	70	130	20	
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	CaDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		2	2.1	0.015	0.04	mg/L	106		85	115		
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	CaDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.016	2	2.1	0.015	0.04	mg/L	104	2	70	130	20	
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	CaDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.016	2	2.1	0.015	0.04	mg/L	106		70	130		
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	CaDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.015	0.015	0.04	mg/L						
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	CdDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.09	0.00003	0.00008	mg/L	90		85	115		
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	CdDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	CdDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.00008	0.1	0.089	0.00003	0.00008	mg/L	89	1	70	130	20	
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	CdDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.00008	0.1	0.088	0.00003	0.00008	mg/L	88		70	130		
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	CdDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.00005	0.1	0.1	0.00003	0.00008	mg/L	100		70	130	20	
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	CdDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.00005	0.1	0.1	0.00003	0.00008	mg/L	100		70	130		
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	CdDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		0.1	0.1	0.00003	0.00008	mg/L	101		85	115		
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	CdDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10561813	745715	SWBF0041-051921MS	3977717	SWBF0041-051921	MS	INITIAL	CdTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.000074	0.1	0.099	0.00003	0.00008	mg/L	98		70	130		
10561813	745715	3977716LCS_10561813	3977716		LCS	INITIAL	CdTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.1	0.00003	0.00008	mg/L	103		85	115		
10561813	745715	3977715BLANK_10561813	3977715		MB	INITIAL	CdTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10561813	745715	SWBF0041-051921MSD	3977718	SWBF0041-051921	MSD	INITIAL	CdTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.000074	0.1	0.099	0.00003	0.00008	mg/L	99		70	130	20	
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	CuDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.0031	0.1	0.092	0.00043	0.001	mg/L	89	2	70	130	20	
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	CuDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.0031	0.1	0.091	0.00043	0.001	mg/L	87		70	130		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	CuDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	CuDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.093	0.00043	0.001	mg/L	93		85	115		
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	CuDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	CuDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		0.1	0.11	0.00043	0.001	mg/L	105		85	115		
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	CuDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.00035	0.1	0.1	0.00043	0.001	mg/L	102		70	130		
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	CuDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.00035	0.1	0.1	0.00043	0.001	mg/L	103	1	70	130	20	
10561813	745715	SWBF0041-051921MSD	3977718	SWBF0041-051921	MSD	INITIAL	CuTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.0056	0.1	0.11	0.00043	0.001	mg/L	102	1	70	130	20	
10561813	745715	3977715BLANK_10561813	3977715		MB	INITIAL	CuTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10561813	745715	3977716LCS_10561813	3977716		LCS	INITIAL	CuTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.11	0.00043	0.001	mg/L	111		85	115		
10561813	745715	SWBF0041-051921MS	3977717	SWBF0041-051921	MS	INITIAL	CuTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.0056	0.1	0.11	0.00043	0.001	mg/L	103		70	130		
10561813	724145	2910961BLANK_10561813	2910961		MB	INITIAL	DOC	D	1	6/3/21	METHOD	6/3/21	SM 5310C			0.3	0.3	1	mg/L						
10561813	724145	2910962LCS_10561813	2910962		LCS	INITIAL	DOC	D	1	6/3/21	METHOD	6/3/21	SM 5310C		5	5.3	0.3	1	mg/L	105		80	120		
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	FeDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		2	2	0.012	0.05	mg/L	101		85	115		
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	FeDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	FeDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.027	2	2	0.012	0.05	mg/L	97		70	130		
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	FeDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.027	2	2	0.012	0.05	mg/L	99	2	70	130	20	
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	FeDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	104		85	115		
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	FeDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.0061	2	2	0.012	0.05	mg/L	102	2	70	130	20	
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	FeDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.0061	2	2.1	0.012	0.05	mg/L	104		70	130		
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	FeDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10561813	745715	3977716LCS_10561813	3977716		LCS	INITIAL	FeTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		2	2.2	0.012	0.05	mg/L	108		85	115		
10561813	745715	3977715BLANK_10561813	3977715		MB	INITIAL	FeTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.028	0.012	0.05	mg/L						
10561813	745715	SWBF0041-051921MSD	3977718	SWBF0041-051921	MSD	INITIAL	FeTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.17	2	2.3	0.012	0.05	mg/L	106	1	70	130	20	
10561813	745715	SWBF0041-051921MS	3977717	SWBF0041-051921	MS	INITIAL	FeTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.17	2	2.3	0.012	0.05	mg/L	107		70	130		
10561813	750378	4002091BLANK_10561813	4002091		MB	INITIAL	FeTR	T	1	6/21/21	EPA 200.8	6/22/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10561813	750378	4002092LCS_10561813	4002092		LCS	INITIAL	FeTR	T	1	6/21/21	EPA 200.8	6/22/21	EPA 200.8		2	2	0.012	0.05	mg/L	98		85	115		
10561813	750378	SWBF0041-051921MSD2	4002094	SWBF0041-051921	MSD	INITIAL	FeTR	T	10	6/21/21	EPA 200.8	6/22/21	EPA 200.8	0.17	2	2.1	0.12	0.5	mg/L	97	2	70	130	20	
10561813	750378	SWBF0041-051921MS2	4002093	SWBF0041-051921	MS	INITIAL	FeTR	T	10	6/21/21	EPA 200.8	6/22/21	EPA 200.8	0.17	2	2.2	0.12	0.5	mg/L	100		70	130		
10561813	748681	3993632BLANK_10561813	3993632		MB	INITIAL	HgDis	D	1	6/14/21	EPA 245.1	6/15/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10561813	748681	3993633LCS_10561813	3993633		LCS	INITIAL	HgDis	D	1	6/14/21	EPA 245.1	6/15/21	EPA 245.1		0.0001	0.000097	0.0000047	0.00001	mg/L	97		85	115		
10561813	748681	SWBF0041-051921MSD	3993635	SWBF0041-051921	MSD	INITIAL	HgDis	D	1	6/14/21	EPA 245.1	6/15/21	EPA 245.1		0.0001	0.000097	0.0000047	0.00001	mg/L	96	1	70	130	20	
10561813	748681	SWBF0041-051921MS	3993634	SWBF0041-051921	MS	INITIAL	HgDis	D	1	6/14/21	EPA 245.1	6/15/21	EPA 245.1		0.0001	0.000096	0.0000047	0.00001	mg/L	95		70	130		
10561813	748684	SWBF0041-051921MS	3993655	SWBF0041-051921	MS	INITIAL	HgTR	T	1	6/14/21	EPA 245.1	6/15/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	97		70	130		
10561813	748684	3993653BLANK_10561813	3993653		MB	INITIAL	HgTR	T	1	6/14/21	EPA 245.1	6/15/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10561813	748684	3993654LCS_10561813	3993654		LCS	INITIAL	HgTR	T	1	6/14/21	EPA 245.1	6/15/21	EPA 245.1		0.0001	0.000099	0.0000047	0.00001	mg/L	99		85	115		
10561813	748684	SWBF0041-051921MSD	3993656	SWBF0041-051921	MSD	INITIAL	HgTR	T	1	6/14/21	EPA 245.1	6/15/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	97		70	130	20	
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	MgDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	9.9	2	12	0.0039	0.01	mg/L	107	1	70	130	20	
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	MgDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		2	2.1	0.0039	0.01	mg/L	106		85	115		
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	MgDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.0039	0.0039	0.01	mg/L						
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	MgDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	9.9	2	12.1	0.0039	0.01	mg/L	113		70	130		
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	MgDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.005	2	2.2	0.0039	0.01	mg/L	108	1	70	130	20	
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	MgDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.005	2	2.1	0.0039	0.01	mg/L	107		70	130		
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	MgDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.0039	0.0039	0.01	mg/L						
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	MgDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		2	2.2	0.0039	0.01	mg/L	108		85	115		
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	MoDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.09	0.000081	0.0005	mg/L	90		85	115		
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	MoDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	MoDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.25	0.1	0.35	0.000081	0.0005	mg/L	110	1	70	130	20	
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	MoDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.25	0.1	0.36	0.000081	0.0005	mg/L	114		70	130		
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	MoDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.0001	0.1	0.1	0.000081	0.0005	mg/L	101	3	70	130	20	
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	MoDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.0001	0.1	0.1	0.000081	0.0005	mg/L	104		70	130		
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	MoDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		0.1	0.1	0.000081	0.0005	mg/L	102		85	115		
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	MoDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10561813	745715	SWBF0041-051921MSD	3977718	SWBF0041-051921	MSD	INITIAL	MoTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.29	0.1	0.39	0.000081	0.0005	mg/L	103	4	70	130	20	
10561813	745715	SWBF0041-051921MS	3977717	SWBF0041-051921	MS	INITIAL	MoTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.29	0.1	0.38	0.000081	0.0005	mg/L	87		70	130		
10561813	745715	3977716LCS_10561813	3977716		LCS	INITIAL	MoTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.11	0.000081	0.0005	mg/L	105		85	115		
10561813	745715	3977715BLANK_10561813	3977715		MB	INITIAL	MoTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.00018	0.000081	0.0005	mg/L						
10561813	746122	3979727BLANK_10561813	3979727		MB	INITIAL	NH3-N	T	1	6/2/21	METHOD	6/2/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10561813	746122	3979728LCS_10561813	3979728		LCS	INITIAL	NH3-N	T	1	6/2/21	METHOD	6/2/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	99		90	110		
10561813	746122	SWBF0041-051921MSD	3979732	SWBF0041-051921	MSD	INITIAL	NH3-N	T	1	6/2/21	METHOD	6/2/21	EPA 350.1		2.5	2.8	0.03	0.1	mg/L	111	8	90	110	20	
10561813	746122	SWBF0041-051921MS	3979731	SWBF0041-051921	MS	INITIAL	NH3-N	T	1	6/2/21	METHOD	6/2/21	EPA 350.1		2.5	2.6	0.03	0.1	mg/L	102		90	110		
10561813	746179	3980149BLANK_10561813	3980149		MB	INITIAL	NH3-N	T	1	6/2/21	METHOD	6/2/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10561813	746179	3980150LCS_10561813	3980150		LCS	INITIAL	NH3-N	T	1	6/2/21	METHOD	6/2/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	99		90	110		
10561813	746625	3982559BLANK_10561813	3982559		MB	INITIAL	NO3/NO2-N	T	1	6/4/21	METHOD	6/4/21	SM 4500-NO3-H			0.086	0.078	0.2	mg/L						
10561813	746625	3982560LCS_10561813	3982560		LCS	INITIAL	NO3/NO2-N	T	1	6/4/21	METHOD	6/4/21	SM 4500-NO3-H		2.5	2.3	0.078	0.2	mg/L	94		90	110		
10561813	746625	SWBF0041-051921MS	3982561	SWBF0041-051921	MS	INITIAL	NO3/NO2-N	T	1	6/4/21	METHOD	6/4/21	SM 4500-NO3-H	0.82	2.5	3.3	0.078	0.2	mg/L	100		80	120		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10561813	746625	SWBF0041-051921MSD	3982562	SWBF0041-051921	MSD	INITIAL	NO3/NO2-N	T	1	6/4/21	METHOD	6/4/21	SM 4500-NO3-H	0.82	2.5	3.3	0.078	0.2	mg/L	101	1	80	120	20	
10561813	745818	3978297BLANK_10561813	3978297		MB	INITIAL	P	T	1	6/1/21	SM4500-P-B	6/3/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10561813	745818	3978298LCS_10561813	3978298		LCS	INITIAL	P	T	1	6/1/21	SM4500-P-B	6/3/21	SM 4500-P-F		2.5	2.4	0.05	0.1	mg/L	97		90	110		
10561813	745818	SWBF0041-051921MSD	3978302	SWBF0041-051921	MSD	INITIAL	P	T	1	6/1/21	SM4500-P-B	6/3/21	SM 4500-P-F	0.11	2.5	2.4	0.05	0.1	mg/L	93	5	80	120	20	
10561813	745818	SWBF0041-051921MS	3978301	SWBF0041-051921	MS	INITIAL	P	T	1	6/1/21	SM4500-P-B	6/3/21	SM 4500-P-F	0.11	2.5	2.5	0.05	0.1	mg/L	97		80	120		
10561813	747145	3985483BLANK_10561813	3985483		MB	INITIAL	P	T	1	6/7/21	SM4500-P-B	6/8/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10561813	747145	3985484LCS_10561813	3985484		LCS	INITIAL	P	T	1	6/7/21	SM4500-P-B	6/8/21	SM 4500-P-F		2.5	2.4	0.05	0.1	mg/L	95		90	110		
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	PbDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	PbDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.1	0.000043	0.0001	mg/L	100		85	115		
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	PbDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.00019	0.1	0.095	0.000043	0.0001	mg/L	95		70	130		
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	PbDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.00019	0.1	0.096	0.000043	0.0001	mg/L	95	1	70	130	20	
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	PbDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.000076	0.1	0.098	0.000043	0.0001	mg/L	98		70	130		
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	PbDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.000076	0.1	0.098	0.000043	0.0001	mg/L	98		70	130	20	
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	PbDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		0.1	0.097	0.000043	0.0001	mg/L	97		85	115		
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	PbDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10561813	745715	SWBF0041-051921MSD	3977718	SWBF0041-051921	MSD	INITIAL	PbTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.00071	0.1	0.1	0.000043	0.0001	mg/L	102	1	70	130	20	
10561813	745715	3977715BLANK_10561813	3977715		MB	INITIAL	PbTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10561813	745715	3977716LCS_10561813	3977716		LCS	INITIAL	PbTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.11	0.000043	0.0001	mg/L	107		85	115		
10561813	745715	SWBF0041-051921MS	3977717	SWBF0041-051921	MS	INITIAL	PbTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.00071	0.1	0.1	0.000043	0.0001	mg/L	103		70	130		
10561813	746687	SWBF0041-051921MS	3982868	SWBF0041-051921	MS	INITIAL	SO4	T	50	6/4/21	METHOD	6/4/21	ASTM D516-90-0	536	200	933	60.5	125	mg/L	199		80	120		
10561813	746687	SWBF0041-051921MSD	3982869	SWBF0041-051921	MSD	INITIAL	SO4	T	50	6/4/21	METHOD	6/4/21	ASTM D516-90-0	536	200	808	60.5	125	mg/L	136	14	80	120	30	
10561813	746687	3982863BLANK_10561813	3982863		MB	INITIAL	SO4	T	1	6/4/21	METHOD	6/4/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10561813	746687	3982864LCS_10561813	3982864		LCS	INITIAL	SO4	T	1	6/4/21	METHOD	6/4/21	ASTM D516-90-02		20	22.8	1.2	2.5	mg/L	114		80	120		
10561813	746687	3982865LCSD_10561813	3982865	982864LCS_1056181	LCSD	INITIAL	SO4	T	1	6/4/21	METHOD	6/4/21	ASTM D516-90-02		20	22.8	1.2	2.5	mg/L	114		80	120	20	
10561813	744605	3971010BLANK_10561813	3971010		MB	INITIAL	TDS	D	1	5/26/21	METHOD	5/26/21	SM 2540C			5	5	10	mg/L						
10561813	744605	3971011LCS_10561813	3971011		LCS	INITIAL	TDS	D	1	5/26/21	METHOD	5/26/21	SM 2540C		1000	1100	10	20	mg/L	110		80	120		
10561813	744605	SWBF0041-051921DUP	3971012	SWBF0041-051921	LR	INITIAL	TDS	D	1	5/26/21	METHOD	5/26/21	SM 2540C	854		884	10	20	mg/L		3			5	
10561813	744605	SWBF0042-051921DUP	3971013	SWBF0042-051921	LR	INITIAL	TDS	D	1	5/26/21	METHOD	5/26/21	SM 2540C	1280		1280	25	50	mg/L					5	
10561813	744606	SWBF0049-051921DUP	3971016	SWBF0049-051921	LR	INITIAL	TDS	D	1	5/26/21	METHOD	5/26/21	SM 2540C	201		200	5	10	mg/L					5	
10561813	744606	3971014BLANK_10561813	3971014		MB	INITIAL	TDS	D	1	5/26/21	METHOD	5/26/21	SM 2540C			5	5	10	mg/L						
10561813	744606	3971015LCS_10561813	3971015		LCS	INITIAL	TDS	D	1	5/26/21	METHOD	5/26/21	SM 2540C		1000	1140	10	20	mg/L	114		80	120		
10561813	723468	2908518BLANK_10561813	2908518		MB	INITIAL	TKN	T	1	6/1/21	METHOD	6/1/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10561813	723468	2908519LCS_10561813	2908519		LCS	INITIAL	TKN	T	1	6/1/21	METHOD	6/1/21	EPA 351.2		5	5.2	0.48	0.5	mg/L	104		90	110		
10561813	723468	SWBF0042-051921DUP	2908521	SWBF0042-051921	LR	INITIAL	TKN	T	1	6/1/21	METHOD	6/1/21	EPA 351.2	0.7		0.65	0.48	0.5	mg/L		7			10	
10561813	744608	3971021BLANK_10561813	3971021		MB	INITIAL	TSS	T	1	5/26/21	METHOD	5/26/21	SM 2540D			5	5	10	mg/L						
10561813	744608	3971022LCS_10561813	3971022		LCS	INITIAL	TSS	T	1	5/26/21	METHOD	5/26/21	SM 2540D		100	95.4	10	20	mg/L	95		80	120		
10561813	744608	SWBF0041-051921DUP	3971024	SWBF0041-051921	LR	INITIAL	TSS	T	1	5/26/21	METHOD	5/26/21	SM 2540D	1.2		0	5	10	mg/L					5	
10561813	744609	SWBF0048-051921DUP	3971027	SWBF0048-051921	LR	INITIAL	TSS	T	1	5/26/21	METHOD	5/26/21	SM 2540D	0.7		1.6	5	10	mg/L					5	
10561813	744609	3971025BLANK_10561813	3971025		MB	INITIAL	TSS	T	1	5/26/21	METHOD	5/26/21	SM 2540D			5	5	10	mg/L						
10561813	744609	3971026LCS_10561813	3971026		LCS	INITIAL	TSS	T	1	5/26/21	METHOD	5/26/21	SM 2540D		100	94.8	10	20	mg/L	95		80	120		
10561813	744609	SWBF0050-051921DUP	3971028	SWBF0050-051921	LR	INITIAL	TSS	T	1	5/26/21	METHOD	5/26/21	SM 2540D	2.2		0.6	5	10	mg/L					5	
10561813	745716	3977739LCS_10561813	3977739		LCS	INITIAL	ZnDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.098	0.0023	0.005	mg/L	98		85	115		
10561813	745716	3977738BLANK_10561813	3977738		MB	INITIAL	ZnDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10561813	745716	SWBF0041-051921MSD	3977741	SWBF0041-051921	MSD	INITIAL	ZnDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.029	0.1	0.12	0.0023	0.005	mg/L	91	1	70	130	20	
10561813	745716	SWBF0041-051921MS	3977740	SWBF0041-051921	MS	INITIAL	ZnDis	D	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.029	0.1	0.12	0.0023	0.005	mg/L	90		70	130		
10561813	747567	3987429LCS_10561813	3987429		LCS	REANALYSIS	ZnDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8		0.1	0.099	0.0023	0.005	mg/L	99		85	115		
10561813	747567	3987428BLANK_10561813	3987428		MB	REANALYSIS	ZnDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10561813	747567	SWBF0044-051921MSD	3988076	SWBF0044-051921	MSD	DILUTION	ZnDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.0012	0.1	0.099	0.0023	0.005	mg/L	98		70	130	20	
10561813	747567	SWBF0044-051921MS	3988075	SWBF0044-051921	MS	DILUTION	ZnDis	D	1	6/9/21	EPA 200.8	6/15/21	EPA 200.8	0.0012	0.1	0.099	0.0023	0.005	mg/L	98		70	130		
10561813	745715	SWBF0041-051921MS	3977717	SWBF0041-051921	MS	INITIAL	ZnTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.034	0.1	0.13	0.0023	0.005	mg/L	97		70	130		
10561813	745715	3977715BLANK_10561813	3977715		MB	INITIAL	ZnTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10561813	745715	SWBF0041-051921MSD	3977718	SWBF0041-051921	MSD	INITIAL	ZnTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8	0.034	0.1	0.13	0.0023	0.005	mg/L	96	1	70	130	20	
10561813	745715	3977716LCS_10561813	3977716		LCS	INITIAL	ZnTR	T	1	6/2/21	EPA 200.8	6/8/21	EPA 200.8		0.1	0.11	0.0023	0.005	mg/L	107		85	115		
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	AgDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.000011	0.05	0.051	0.000077	0.0005	mg/L	102	1	70	130	20	
10564925	750605	4003691LCS_10564925	4003691		LCS	INITIAL	AgDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		0.05	0.053	0.000077	0.0005	mg/L	105		85	115		
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	AgDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	AgDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.000011	0.05	0.052	0.000077	0.0005	mg/L	103		70	130		
10564925	750657	4003824BLANK_10564925	4003824		MB	INITIAL	AgTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8			0.000077	0.000077	0.0005	mg/L						
10564925	750657	4003825LCS_10564925	4003825		LCS	INITIAL	AgTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		0.05	0.053	0.000077	0.0005	mg/L	107		85	115		
10564925	750657	SWBF0059-060921MS	4003826	SWBF0059-060921	MS	INITIAL	AgTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		0.05	0.052	0.000077	0.0005	mg/L	103		70	130		
10564925	750657	SWBF0059-060921MSD	4003827	SWBF0059-060921	MSD	INITIAL	AgTR	T	1	6/22/21	EPA 200.8	6/28/21	EPA 200.8		0.05	0.053	0.000077	0.0005	mg/L	106	3	70	130	20	
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	AlDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	AlDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.021	2	2	0.0071	0.02	mg/L	101		70	130	20	
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	AlDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.021	2	2.1	0.0071	0.02	mg/L	102		70	130		
10564925	750605	4003691LCS_10564925	4003691		LCS	INITIAL	AlDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		2	2	0.0071	0.02	mg/L	102		85	115		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10564925	751522	SWBF0059-060921MSD	4007648	SWBF0059-060921	MSD	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B	84	40	108	1.8	5	mg/L	59	4	80	120	20	
10564925	751522	SWBF0059-060921MS	4007647	SWBF0059-060921	MS	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B	84	40	112	1.8	5	mg/L	69		80	120		
10564925	751522	4007642BLANK_10564925	4007642		MB	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B			1.8	1.8	5	mg/L						
10564925	751522	4007643LCS_10564925	4007643		LCS	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B		40	41.8	1.8	5	mg/L	104		90	110		
10564925	751522	4007644LCSD_10564925	4007644	007643LCS_1056492	LCSD	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B		40	42	1.8	5	mg/L	105		90	110	20	
10564925	751586	4008033BLANK_10564925	4008033		MB	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B			1.8	1.8	5	mg/L						
10564925	751586	4008034LCS_10564925	4008034		LCS	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B		40	42.6	1.8	5	mg/L	106		90	110		
10564925	751586	4008035LCSD_10564925	4008035	008034LCS_1056492	LCSD	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B		40	43	1.8	5	mg/L	108	1	90	110	20	
10564925	751586	SWBF0060-060921MS	4008036	SWBF0060-060921	MS	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B	69.4	40	110	1.8	5	mg/L	101		80	120		
10564925	751586	SWBF0060-060921MSD	4008037	SWBF0060-060921	MSD	INITIAL	ALK_CaCO3	T	1	6/23/21	METHOD	6/23/21	SM 2320B	69.4	40	110	1.8	5	mg/L	101		80	120	20	
10564925	750657	4003824BLANK_10564925	4003824		MB	INITIAL	AlTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8			0.0071	0.0071	0.02	mg/L						
10564925	750657	4003825LCS_10564925	4003825		LCS	INITIAL	AlTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		2	2.1	0.0071	0.02	mg/L	104		85	115		
10564925	750657	SWBF0059-060921MSD	4003827	SWBF0059-060921	MSD	INITIAL	AlTR	T	1	6/22/21	EPA 200.8	6/28/21	EPA 200.8	0.051	2	2.1	0.0071	0.02	mg/L	102	1	70	130	20	
10564925	750657	SWBF0059-060921MS	4003826	SWBF0059-060921	MS	INITIAL	AlTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8	0.051	2	2.1	0.0071	0.02	mg/L	103		70	130		
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	AsDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.0028	0.1	0.11	0.00014	0.0005	mg/L	107		70	130	20	
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	AsDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10564925	750605	4003691LCS_10564925	4003691		LCS	INITIAL	AsDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		0.1	0.1	0.00014	0.0005	mg/L	103		85	115		
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	AsDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.0028	0.1	0.11	0.00014	0.0005	mg/L	107		70	130		
10564925	750657	4003824BLANK_10564925	4003824		MB	INITIAL	AsTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8			0.00014	0.00014	0.0005	mg/L						
10564925	750657	4003825LCS_10564925	4003825		LCS	INITIAL	AsTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		0.1	0.11	0.00014	0.0005	mg/L	106		85	115		
10564925	750657	SWBF0059-060921MS	4003826	SWBF0059-060921	MS	INITIAL	AsTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8	0.0033	0.1	0.11	0.00014	0.0005	mg/L	109		70	130		
10564925	750657	SWBF0059-060921MSD	4003827	SWBF0059-060921	MSD	INITIAL	AsTR	T	1	6/22/21	EPA 200.8	6/28/21	EPA 200.8	0.0033	0.1	0.11	0.00014	0.0005	mg/L	107	2	70	130	20	
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	CaDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.015	0.015	0.04	mg/L						
10564925	750605	40036911LCS_10564925	4003691		LCS	INITIAL	CaDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		2	2.1	0.015	0.04	mg/L	104		85	115		
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	CaDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	161	2	161	0.015	0.04	mg/L	0	1	70	130	20	
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	CaDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	161	2	162	0.015	0.04	mg/L	48		70	130		
10564925	750605	4003691LCS_10564925	4003691		LCS	INITIAL	CdDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		0.1	0.1	0.00003	0.00008	mg/L	104		85	115		
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	CdDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	CdDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.000018	0.1	0.1	0.00003	0.00008	mg/L	103		70	130		
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	CdDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.000018	0.1	0.1	0.00003	0.00008	mg/L	102	1	70	130	20	
10564925	750657	SWBF0059-060921MSD	4003827	SWBF0059-060921	MSD	INITIAL	CdTR	T	1	6/22/21	EPA 200.8	6/28/21	EPA 200.8	0.000031	0.1	0.1	0.00003	0.00008	mg/L	103	3	70	130	20	
10564925	750657	SWBF0059-060921MS	4003826	SWBF0059-060921	MS	INITIAL	CdTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8	0.000031	0.1	0.11	0.00003	0.00008	mg/L	106		70	130		
10564925	750657	4003825LCS_10564925	4003825		LCS	INITIAL	CdTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		0.1	0.11	0.00003	0.00008	mg/L	108		85	115		
10564925	750657	4003824BLANK_10564925	4003824		MB	INITIAL	CdTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8			0.00003	0.00003	0.00008	mg/L						
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	CuDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.0028	0.1	0.11	0.00043	0.001	mg/L	102	1	70	130	20	
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	CuDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.0028	0.1	0.11	0.00043	0.001	mg/L	103		70	130		
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	CuDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10564925	750605	4003691LCS_10564925	4003691		LCS	INITIAL	CuDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		0.1	0.1	0.00043	0.001	mg/L	105		85	115		
10564925	750657	4003824BLANK_10564925	4003824		MB	INITIAL	CuTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8			0.00043	0.00043	0.001	mg/L						
10564925	750657	4003825LCS_10564925	4003825		LCS	INITIAL	CuTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		0.1	0.11	0.00043	0.001	mg/L	109		85	115		
10564925	750657	SWBF0059-060921MS	4003826	SWBF0059-060921	MS	INITIAL	CuTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8	0.0055	0.1	0.11	0.00043	0.001	mg/L	107		70	130		
10564925	750657	SWBF0059-060921MSD	4003827	SWBF0059-060921	MSD	INITIAL	CuTR	T	1	6/22/21	EPA 200.8	6/28/21	EPA 200.8	0.0055	0.1	0.11	0.00043	0.001	mg/L	106		70	130	20	
10564925	726747	SWBF0059-060921DUP	2919845	SWBF0059-060921	LR	INITIAL	DOC	D	1	6/16/21	METHOD	6/16/21	SM 5310C	3		3.1	0.3	1	mg/L		1			25	
10564925	726747	SWBF0059-060921MS	2919846	SWBF0059-060921	MS	INITIAL	DOC	D	1	6/16/21	METHOD	6/16/21	SM 5310C	3	5	7.6	0.3	1	mg/L	92		80	120		
10564925	726747	SWBF0059-060921MSD	2919847	SWBF0059-060921	MSD	INITIAL	DOC	D	1	6/16/21	METHOD	6/16/21	SM 5310C	3	5	7.8	0.3	1	mg/L	96	3	80	120	25	
10564925	726747	2919843BLANK_10564925	2919843		MB	INITIAL	DOC	D	1	6/16/21	METHOD	6/16/21	SM 5310C			0.3	0.3	1	mg/L						
10564925	726747	2919844LCS_10564925	2919844		LCS	INITIAL	DOC	D	1	6/16/21	METHOD	6/16/21	SM 5310C		5	5.1	0.3	1	mg/L	102		80	120		
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	FeDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.011	2	2	0.012	0.05	mg/L	99	2	70	130	20	
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	FeDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.011	2	2	0.012	0.05	mg/L	101		70	130		
10564925	750605	40036911LCS_10564925	4003691		LCS	INITIAL	FeDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		2	2	0.012	0.05	mg/L	102		85	115		
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	FeDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10564925	750657	SWBF0059-060921MS	4003826	SWBF0059-060921	MS	INITIAL	FeTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8	0.14	2	2.2	0.012	0.05	mg/L	105		70	130		
10564925	750657	SWBF0059-060921MSD	4003827	SWBF0059-060921	MSD	INITIAL	FeTR	T	1	6/22/21	EPA 200.8	6/28/21	EPA 200.8	0.14	2	2.3	0.012	0.05	mg/L	109	3	70	130	20	
10564925	750657	4003825LCS_10564925	4003825		LCS	INITIAL	FeTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	107		85	115		
10564925	750657	4003824BLANK_10564925	4003824		MB	INITIAL	FeTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10564925	749420	3997341BLANK_10564925	3997341		MB	INITIAL	HgDis	D	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10564925	749420	3997342LCS_10564925	3997342		LCS	INITIAL	HgDis	D	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	104		85	115		
10564925	749425	3997364BLANK_10564925	3997364		MB	INITIAL	HgDis	D	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10564925	749425	3997365LCS_10564925	3997365		LCS	INITIAL	HgDis	D	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	107		85	115		
10564925	749425	SWBF0059-060921MS	3997366	SWBF0059-060921	MS	INITIAL	HgDis	D	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	99		70	130		
10564925	749425	SWBF0059-060921MSD	3997367	SWBF0059-060921	MSD	INITIAL	HgDis	D	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	100	1	70	130	20	
10564925	749424	SWBF0059-060921MS	3997362	SWBF0059-060921	MS	INITIAL	HgTR	T	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	99		70	130		
10564925	749424	SWBF0059-060921MSD	3997363	SWBF0059-060921	MSD	INITIAL	HgTR	T	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	101	2	70	130	20	
10564925	749424	3997360BLANK_10564925	3997360		MB	INITIAL	HgTR	T	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10564925	749424	3997361LCS_10564925	3997361		LCS	INITIAL	HgTR	T	1	6/16/21	EPA 245.1	6/17/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	104		85	115		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	MgDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	10.3	2	12.3	0.0039	0.01	mg/L	102	1	70	130	20	
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	MgDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	10.3	2	12.4	0.0039	0.01	mg/L	106		70	130		
10564925	750605	4003691LCS_10564925	4003691		LCS	INITIAL	MgDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		2	2	0.0039	0.01	mg/L	100		85	115		
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	MgDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.0039	0.0039	0.01	mg/L						
10564925	750605	4003691LCS_10564925	4003691		LCS	INITIAL	MoDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		0.1	0.1	0.000081	0.0005	mg/L	105		85	115		
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	MoDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	MoDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.24	0.1	0.36	0.000081	0.0005	mg/L	118		70	130		
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	MoDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.24	0.1	0.35	0.000081	0.0005	mg/L	112	2	70	130	20	
10564925	750657	SWBF0059-060921MS	4003826	SWBF0059-060921	MS	INITIAL	MoTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8	0.25	0.1	0.36	0.000081	0.0005	mg/L	114		70	130		
10564925	750657	SWBF0059-060921MSD	4003827	SWBF0059-060921	MSD	INITIAL	MoTR	T	1	6/22/21	EPA 200.8	6/28/21	EPA 200.8	0.25	0.1	0.36	0.000081	0.0005	mg/L	111	1	70	130	20	
10564925	750657	4003825LCS_10564925	4003825		LCS	INITIAL	MoTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		0.1	0.11	0.000081	0.0005	mg/L	105		85	115		
10564925	750657	4003824BLANK_10564925	4003824		MB	INITIAL	MoTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8			0.000081	0.000081	0.0005	mg/L						
10564925	750784	4004269BLANK_10564925	4004269		MB	INITIAL	NH3-N	T	1	6/21/21	METHOD	6/21/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10564925	750784	4004270LCS_10564925	4004270		LCS	INITIAL	NH3-N	T	1	6/21/21	METHOD	6/21/21	EPA 350.1		2.5	2.4	0.03	0.1	mg/L	96		90	110		
10564925	750785	4004275BLANK_10564925	4004275		MB	INITIAL	NH3-N	T	1	6/21/21	METHOD	6/21/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10564925	750785	4004276LCS_10564925	4004276		LCS	INITIAL	NH3-N	T	1	6/21/21	METHOD	6/21/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	101		90	110		
10564925	750785	SWBF0059-060921MSD	4004278	SWBF0059-060921	MSD	INITIAL	NH3-N	T	1	6/21/21	METHOD	6/21/21	EPA 350.1	0.027	2.5	2.6	0.03	0.1	mg/L	103	2	90	110	20	
10564925	750785	SWBF0059-060921MS	4004277	SWBF0059-060921	MS	INITIAL	NH3-N	T	1	6/21/21	METHOD	6/21/21	EPA 350.1	0.027	2.5	2.6	0.03	0.1	mg/L	104		90	110		
10564925	749645	3998438BLANK_10564925	3998438		MB	INITIAL	NO3/NO2-N	T	1	6/16/21	METHOD	6/16/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10564925	749645	3998439LCS_10564925	3998439		LCS	INITIAL	NO3/NO2-N	T	1	6/16/21	METHOD	6/16/21	SM 4500-NO3-H		2.5	2.5	0.078	0.2	mg/L	100		90	110		
10564925	749645	SWBF0059-060921MS	3998440	SWBF0059-060921	MS	INITIAL	NO3/NO2-N	T	1	6/16/21	METHOD	6/16/21	SM 4500-NO3-H	0.75	2.5	3.2	0.078	0.2	mg/L	99		80	120		
10564925	749645	SWBF0059-060921MSD	3998441	SWBF0059-060921	MSD	INITIAL	NO3/NO2-N	T	1	6/16/21	METHOD	6/16/21	SM 4500-NO3-H	0.75	2.5	3.3	0.078	0.2	mg/L	101	2	80	120	20	
10564925	750604	SWBF0059-060921MSD	4003689	SWBF0059-060921	MSD	INITIAL	P	T	1	6/20/21	SM4500-P-B	6/21/21	SM 4500-P-F	0.029	2.5	2.6	0.05	0.1	mg/L	104	3	80	120	20	
10564925	750604	SWBF0059-060921MS	4003688	SWBF0059-060921	MS	INITIAL	P	T	1	6/20/21	SM4500-P-B	6/21/21	SM 4500-P-F	0.029	2.5	2.6	0.05	0.1	mg/L	102		80	120		
10564925	750604	4003684BLANK_10564925	4003684		MB	INITIAL	P	T	1	6/20/21	SM4500-P-B	6/21/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10564925	750604	4003685LCS_10564925	4003685		LCS	INITIAL	P	T	1	6/20/21	SM4500-P-B	6/21/21	SM 4500-P-F		2.5	2.5	0.05	0.1	mg/L	102		90	110		
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	PbDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.00013	0.1	0.1	0.000043	0.0001	mg/L	101	1	70	130	20	
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	PbDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10564925	750605	4003691LCS_10564925	4003691		LCS	INITIAL	PbDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		0.1	0.1	0.000043	0.0001	mg/L	103		85	115		
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	PbDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.00013	0.1	0.1	0.000043	0.0001	mg/L	102		70	130		
10564925	750657	4003824BLANK_10564925	4003824		MB	INITIAL	PbTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8			0.000043	0.000043	0.0001	mg/L						
10564925	750657	4003825LCS_10564925	4003825		LCS	INITIAL	PbTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		0.1	0.11	0.000043	0.0001	mg/L	108		85	115		
10564925	750657	SWBF0059-060921MS	4003826	SWBF0059-060921	MS	INITIAL	PbTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8	0.00054	0.1	0.11	0.000043	0.0001	mg/L	105		70	130		
10564925	750657	SWBF0059-060921MSD	4003827	SWBF0059-060921	MSD	INITIAL	PbTR	T	1	6/22/21	EPA 200.8	6/28/21	EPA 200.8	0.00054	0.1	0.1	0.000043	0.0001	mg/L	103	3	70	130	20	
10564925	750585	4003593BLANK_10564925	4003593		MB	INITIAL	SO4	T	1	6/20/21	METHOD	6/20/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10564925	750585	4003594LCS_10564925	4003594		LCS	INITIAL	SO4	T	1	6/20/21	METHOD	6/20/21	ASTM D516-90-02		20	18.8	1.2	2.5	mg/L	94		80	120		
10564925	750585	4003595LCSD_10564925	4003595	003594LCS_1056492	LCSD	INITIAL	SO4	T	1	6/20/21	METHOD	6/20/21	ASTM D516-90-02		20	18.6	1.2	2.5	mg/L	93	1	80	120	20	
10564925	751763	4008749BLANK_10564925	4008749		MB	INITIAL	SO4	T	1	6/24/21	METHOD	6/24/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10564925	751763	4008750LCS_10564925	4008750		LCS	INITIAL	SO4	T	1	6/24/21	METHOD	6/24/21	ASTM D516-90-02		20	18.5	1.2	2.5	mg/L	92		80	120		
10564925	751763	4008751LCSD_10564925	4008751	008750LCS_1056492	LCSD	INITIAL	SO4	T	1	6/24/21	METHOD	6/24/21	ASTM D516-90-02		20	18.8	1.2	2.5	mg/L	94	1	80	120	20	
10564925	751763	SWBF0059-060921MS	4008752	SWBF0059-060921	MS	INITIAL	SO4	T	25	6/24/21	METHOD	6/24/21	ASTM D516-90-0	398	100	540	30.2	62.5	mg/L	142		80	120		
10564925	751763	SWBF0059-060921MSD	4008753	SWBF0059-060921	MSD	INITIAL	SO4	T	25	6/24/21	METHOD	6/24/21	ASTM D516-90-0	398	100	524	30.2	62.5	mg/L	126	3	80	120	30	
10564925	749757	SWBF0059-060921DUP	3999116	SWBF0059-060921	LR	INITIAL	TDS	D	1	6/16/21	METHOD	6/16/21	SM 2540C	754		782	10	20	mg/L		4			5	
10564925	749757	3999113BLANK_10564925	3999113		MB	INITIAL	TDS	D	1	6/16/21	METHOD	6/16/21	SM 2540C			5	5	10	mg/L						
10564925	749757	3999114LCS_10564925	3999114		LCS	INITIAL	TDS	D	1	6/16/21	METHOD	6/16/21	SM 2540C		1000	1170	10	20	mg/L	117		80	120		
10564925	749760	3999127BLANK_10564925	3999127		MB	INITIAL	TDS	D	1	6/16/21	METHOD	6/16/21	SM 2540C			12	5	10	mg/L						
10564925	749760	3999128LCS_10564925	3999128		LCS	INITIAL	TDS	D	1	6/16/21	METHOD	6/16/21	SM 2540C		1000	856	10	20	mg/L	86		80	120		
10564925	749760	SWBF0060-060921DUP	3999129	SWBF0060-060921	LR	INITIAL	TDS	D	1	6/16/21	METHOD	6/16/21	SM 2540C	874		846	10	20	mg/L		3			5	
10564925	728092	SWBF0059-060921MSD	2924613	SWBF0059-060921	MSD	INITIAL	TKN	T	1	6/23/21	METHOD	6/23/21	EPA 351.2	0.45	5	5.7	0.48	0.5	mg/L	104	1	90	110	10	
10564925	728092	SWBF0059-060921MS	2924612	SWBF0059-060921	MS	INITIAL	TKN	T	1	6/23/21	METHOD	6/23/21	EPA 351.2	0.45	5	5.6	0.48	0.5	mg/L	103		90	110		
10564925	728092	SWBF0059-060921DUP	2924611	SWBF0059-060921	LR	INITIAL	TKN	T	1	6/23/21	METHOD	6/23/21	EPA 351.2	0.45		0.49	0.48	0.5	mg/L					10	
10564925	728092	2924609BLANK_10564925	2924609		MB	INITIAL	TKN	T	1	6/23/21	METHOD	6/23/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10564925	728092	2924610LCS_10564925	2924610		LCS	INITIAL	TKN	T	1	6/23/21	METHOD	6/23/21	EPA 351.2		5	4.8	0.48	0.5	mg/L	96		90	110		
10564925	749742	3999048BLANK_10564925	3999048		MB	INITIAL	TSS	T	1	6/16/21	METHOD	6/16/21	SM 2540D			5	5	10	mg/L						
10564925	749742	3999049LCS_10564925	3999049		LCS	INITIAL	TSS	T	1	6/16/21	METHOD	6/16/21	SM 2540D		100	102	10	20	mg/L	102		80	120		
10564925	749743	3999056BLANK_10564925	3999056		MB	INITIAL	TSS	T	1	6/16/21	METHOD	6/16/21	SM 2540D			5	5	10	mg/L						
10564925	749743	3999057LCS_10564925	3999057		LCS	INITIAL	TSS	T	1	6/16/21	METHOD	6/16/21	SM 2540D		100	115	10	20	mg/L	115		80	120		
10564925	749743	SWBF0059-060921DUP	3999058	SWBF0059-060921	LR	INITIAL	TSS	T	1	6/16/21	METHOD	6/16/21	SM 2540D	3.2		2	5	10	mg/L					5	
10564925	750605	SWBF0059-060921MSD	4003693	SWBF0059-060921	MSD	INITIAL	ZnDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.026	0.1	0.12	0.0023	0.005	mg/L	99	1	70	130	20	
10564925	750605	4003691LCS_10564925	4003691		LCS	INITIAL	ZnDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8		0.1	0.1	0.0023	0.005	mg/L	104		85	115		
10564925	750605	4003690BLANK_10564925	4003690		MB	INITIAL	ZnDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						
10564925	750605	SWBF0059-060921MS	4003692	SWBF0059-060921	MS	INITIAL	ZnDis	D	1	6/22/21	EPA 200.8	6/25/21	EPA 200.8	0.026	0.1	0.13	0.0023	0.005	mg/L	100		70	130		
10564925	750657	SWBF0059-060921MS	4003826	SWBF0059-060921	MS	INITIAL	ZnTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8	0.031	0.1	0.14	0.0023	0.005	mg/L	105		70	130		
10564925	750657	4003825LCS_10564925	4003825		LCS	INITIAL	ZnTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8		0.1	0.11	0.0023	0.005	mg/L	109		85	115		
10564925	750657	4003824BLANK_10564925	4003824		MB	INITIAL	ZnTR	T	1	6/22/21	EPA 200.8	6/24/21	EPA 200.8			0.0023	0.0023	0.005	mg/L						

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10564925	750657	SWBF0059-060921MSD	4003827	SWBF0059-060921	MSD	INITIAL	ZnTR	T	1	6/22/21	EPA 200.8	6/28/21	EPA 200.8	0.031	0.1	0.14	0.0023	0.005	mg/L	104	1	70	130	20	
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	AgDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.00015	0.05	0.053	0.00016	0.0005	mg/L	105		70	130		
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	AgDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	AgDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		0.05	0.054	0.00016	0.0005	mg/L	107		85	115		
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	AgDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.00015	0.05	0.052	0.00016	0.0005	mg/L	104	1	70	130	20	
10569157	755301	SWBF0081-070821MSD	4027608	SWBF0081-070821	MSD	REANALYSIS	AgTR	T	5	7/12/21	EPA 200.8	7/21/21	EPA 200.8	0.000012	0.05	0.045	0.00082	0.0025	mg/L	90	7	70	130	20	
10569157	755301	SWBF0081-070821MS	4027607	SWBF0081-070821	MS	REANALYSIS	AgTR	T	5	7/12/21	EPA 200.8	7/21/21	EPA 200.8	0.000012	0.05	0.048	0.00082	0.0025	mg/L	96		70	130		
10569157	755301	4027605BLANK_10569157	4027605		MB	REANALYSIS	AgTR	T	1	7/12/21	EPA 200.8	7/22/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10569157	755301	4027606LCS_10569157	4027606		LCS	REANALYSIS	AgTR	T	1	7/12/21	EPA 200.8	7/22/21	EPA 200.8		0.05	0.05	0.00016	0.0005	mg/L	100		85	115		
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	AlDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.019	2	2.1	0.008	0.02	mg/L	103		70	130		
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	AlDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	AlDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		2	2	0.008	0.02	mg/L	100		85	115		
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	AlDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.019	2	2.1	0.008	0.02	mg/L	102	1	70	130	20	
10569157	757116	4037276BLANK_10569157	4037276		MB	INITIAL	ALK_CaCO3	T	1	7/19/21	METHOD	7/19/21	SM 2320B			1.8	1.8	5	mg/L						
10569157	757116	4037277LCS_10569157	4037277		LCS	INITIAL	ALK_CaCO3	T	1	7/19/21	METHOD	7/19/21	SM 2320B		40	42.4	1.8	5	mg/L	106		90	110		
10569157	757116	4037278LCSD_10569157	4037278	037277LCS_1056915	LCSD	INITIAL	ALK_CaCO3	T	1	7/19/21	METHOD	7/19/21	SM 2320B		40	42.6	1.8	5	mg/L	106		90	110	20	
10569157	757116	SWBF0081-070821MS	4037281	SWBF0081-070821	MS	INITIAL	ALK_CaCO3	T	1	7/19/21	METHOD	7/19/21	SM 2320B	62.5	40	99.5	1.8	5	mg/L	93		80	120		
10569157	757116	SWBF0081-070821MSD	4037282	SWBF0081-070821	MSD	INITIAL	ALK_CaCO3	T	1	7/19/21	METHOD	7/19/21	SM 2320B	62.5	40	96.7	1.8	5	mg/L	86	3	80	120	20	
10569157	755301	SWBF0081-070821MS	4027607	SWBF0081-070821	MS	INITIAL	AlTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.055	2	1.7	0.04	0.1	mg/L	84		70	130		
10569157	755301	SWBF0081-070821MSD	4027608	SWBF0081-070821	MSD	INITIAL	AlTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.055	2	1.8	0.04	0.1	mg/L	90	6	70	130	20	
10569157	755301	4027605BLANK_10569157	4027605		MB	INITIAL	AlTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10569157	755301	4027606LCS_10569157	4027606		LCS	INITIAL	AlTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8		2	2	0.008	0.02	mg/L	99		85	115		
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	AsDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.0023	0.1	0.11	0.000083	0.0005	mg/L	108		70	130	20	
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	AsDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		0.1	0.1	0.000083	0.0005	mg/L	102		85	115		
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	AsDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	AsDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.0023	0.1	0.11	0.000083	0.0005	mg/L	108		70	130		
10569157	755301	SWBF0081-070821MS	4027607	SWBF0081-070821	MS	REANALYSIS	AsTR	T	5	7/12/21	EPA 200.8	7/21/21	EPA 200.8	0.0027	0.1	0.098	0.00041	0.0025	mg/L	95		70	130		
10569157	755301	4027605BLANK_10569157	4027605		MB	REANALYSIS	AsTR	T	1	7/12/21	EPA 200.8	7/22/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10569157	755301	4027606LCS_10569157	4027606		LCS	REANALYSIS	AsTR	T	1	7/12/21	EPA 200.8	7/22/21	EPA 200.8		0.1	0.092	0.000083	0.0005	mg/L	92		85	115		
10569157	755301	SWBF0081-070821MSD	4027608	SWBF0081-070821	MSD	REANALYSIS	AsTR	T	5	7/12/21	EPA 200.8	7/21/21	EPA 200.8	0.0027	0.1	0.091	0.00041	0.0025	mg/L	88	8	70	130	20	
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	CaDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	191	2	193	0.018	0.04	mg/L	111	2	70	130	20	
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	CaDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.018	0.018	0.04	mg/L						
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	CaDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		2	2.1	0.018	0.04	mg/L	106		85	115		
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	CaDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	191	2	198	0.018	0.04	mg/L	354		70	130		
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	CdDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.000039	0.1	0.11	0.000016	0.00008	mg/L	106		70	130		
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	CdDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	CdDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		0.1	0.1	0.000016	0.00008	mg/L	105		85	115		
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	CdDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.000039	0.1	0.11	0.000016	0.00008	mg/L	106		70	130	20	
10569157	755301	SWBF0081-070821MSD	4027608	SWBF0081-070821	MSD	INITIAL	CdTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.00007	0.1	0.085	0.00008	0.0004	mg/L	85	1	70	130	20	
10569157	755301	SWBF0081-070821MS	4027607	SWBF0081-070821	MS	INITIAL	CdTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.00007	0.1	0.084	0.00008	0.0004	mg/L	84		70	130		
10569157	755301	4027605BLANK_10569157	4027605		MB	INITIAL	CdTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10569157	755301	4027606LCS_10569157	4027606		LCS	INITIAL	CdTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8		0.1	0.092	0.000016	0.00008	mg/L	92		85	115		
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	CuDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.0021	0.1	0.11	0.0005	0.001	mg/L	104	2	70	130	20	
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	CuDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		0.1	0.11	0.0005	0.001	mg/L	106		85	115		
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	CuDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	CuDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.0021	0.1	0.11	0.0005	0.001	mg/L	106		70	130		
10569157	755301	4027606LCS_10569157	4027606		LCS	INITIAL	CuTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8		0.1	0.098	0.0005	0.001	mg/L	98		85	115		
10569157	755301	4027605BLANK_10569157	4027605		MB	INITIAL	CuTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10569157	755301	SWBF0081-070821MSD	4027608	SWBF0081-070821	MSD	INITIAL	CuTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.0043	0.1	0.095	0.0025	0.005	mg/L	91	2	70	130	20	
10569157	755301	SWBF0081-070821MS	4027607	SWBF0081-070821	MS	INITIAL	CuTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.0043	0.1	0.093	0.0025	0.005	mg/L	89		70	130		
10569157	731841	2937785BLANK_10569157	2937785		MB	INITIAL	DOC	D	1	7/15/21	METHOD	7/15/21	SM 5310C			0.3	0.3	1	mg/L						
10569157	731841	2937786LCS_10569157	2937786		LCS	INITIAL	DOC	D	1	7/15/21	METHOD	7/15/21	SM 5310C		5	5.4	0.3	1	mg/L	108		80	120		
10569157	731841	SWBF0081-070821MS	2937788	SWBF0081-070821	MS	INITIAL	DOC	D	1	7/16/21	METHOD	7/16/21	SM 5310C	2.1	5	7.4	0.3	1	mg/L	106		80	120		
10569157	731841	SWBF0081-070821DUP	2937787	SWBF0081-070821	LR	INITIAL	DOC	D	1	7/16/21	METHOD	7/16/21	SM 5310C	2.1		2	0.3	1	mg/L		4			25	
10569157	731841	SWBF0081-070821MSD	2937789	SWBF0081-070821	MSD	INITIAL	DOC	D	1	7/16/21	METHOD	7/16/21	SM 5310C	2.1	5	7.2	0.3	1	mg/L	103	2	80	120	25	
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	FeDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	FeDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.014	2	2.1	0.012	0.05	mg/L	104		70	130		
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	FeDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		2	2	0.012	0.05	mg/L	102		85	115		
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	FeDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.014	2	2.1	0.012	0.05	mg/L	104		70	130	20	
10569157	755301	SWBF0081-070821MSD	4027608	SWBF0081-070821	MSD	INITIAL	FeTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.12	2	1.9	0.06	0.25	mg/L	89	2	70	130	20	
10569157	755301	SWBF0081-070821MS	4027607	SWBF0081-070821	MS	INITIAL	FeTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.12	2	1.9	0.06	0.25	mg/L	88		70	130		
10569157	755301	4027605BLANK_10569157	4027605		MB	INITIAL	FeTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10569157	755301	4027606LCS_10569157	4027606		LCS	INITIAL	FeTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8		2	2	0.012	0.05	mg/L	98		85	115		
10569157	756742	SWBF0081-070821MSD	4035379	SWBF0081-070821	MSD	INITIAL	HgDis	D	1	7/16/21	EPA 245.1	7/20/21	EPA 245.1		0.0001	0.000085	0.0000047	0.00001	mg/L	85	6	70	130	20	
10569157	756742	4035376BLANK_10569157	4035376		MB	INITIAL	HgDis	D	1	7/16/21	EPA 245.1	7/20/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10569157	756742	4035377LCS_10569157	4035377		LCS	INITIAL	HgDis	D	1	7/16/21	EPA 245.1	7/20/21	EPA 245.1		0.0001	0.000095	0.0000047	0.00001	mg/L	95		85	115		
10569157	756742	SWBF0081-070821MS	4035378	SWBF0081-070821	MS	INITIAL	HgDis	D	1	7/16/21	EPA 245.1	7/20/21	EPA 245.1		0.0001	0.00008	0.0000047	0.00001	mg/L	80		70	130		
10569157	756126	SWBF0081-070821MS	4031746	SWBF0081-070821	MS	INITIAL	HgTR	T	1	7/14/21	EPA 245.1	7/15/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	97		70	130		
10569157	756126	4031744BLANK_10569157	4031744		MB	INITIAL	HgTR	T	1	7/14/21	EPA 245.1	7/15/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10569157	756126	4031745LCS_10569157	4031745		LCS	INITIAL	HgTR	T	1	7/14/21	EPA 245.1	7/15/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	101		85	115		
10569157	756126	SWBF0081-070821MSD	4031747	SWBF0081-070821	MSD	INITIAL	HgTR	T	1	7/14/21	EPA 245.1	7/15/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	100	3	70	130	20	
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	MgDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.0034	0.0034	0.01	mg/L						
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	MgDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	9	2	11.3	0.0034	0.01	mg/L	116		70	130		
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	MgDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		2	2.1	0.0034	0.01	mg/L	103		85	115		
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	MgDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	9	2	11.2	0.0034	0.01	mg/L	107	2	70	130	20	
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	MoDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	MoDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.29	0.1	0.41	0.000094	0.0005	mg/L	119		70	130	20	
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	MoDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		0.1	0.11	0.000094	0.0005	mg/L	107		85	115		
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	MoDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.29	0.1	0.41	0.000094	0.0005	mg/L	119		70	130		
10569157	755301	SWBF0081-070821MSD	4027608	SWBF0081-070821	MSD	INITIAL	MoTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.28	0.1	0.34	0.00047	0.0025	mg/L	62		70	130	20	
10569157	755301	SWBF0081-070821MS	4027607	SWBF0081-070821	MS	INITIAL	MoTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.28	0.1	0.34	0.00047	0.0025	mg/L	62		70	130		
10569157	755301	4027605BLANK_10569157	4027605		MB	INITIAL	MoTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10569157	755301	4027606LCS_10569157	4027606		LCS	INITIAL	MoTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8		0.1	0.099	0.000094	0.0005	mg/L	99		85	115		
10569157	757191	SWBF0081-070821MSD	4037583	SWBF0081-070821	MSD	INITIAL	NH3-N	T	1	7/20/21	METHOD	7/20/21	EPA 350.1	0.034	2.5	2.5	0.03	0.1	mg/L	98	4	90	110	20	
10569157	757191	4037578BLANK_10569157	4037578		MB	INITIAL	NH3-N	T	1	7/20/21	METHOD	7/20/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10569157	757191	4037579LCS_10569157	4037579		LCS	INITIAL	NH3-N	T	1	7/20/21	METHOD	7/20/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	100		90	110		
10569157	757191	SWBF0081-070821MS	4037582	SWBF0081-070821	MS	INITIAL	NH3-N	T	1	7/20/21	METHOD	7/20/21	EPA 350.1	0.034	2.5	2.6	0.03	0.1	mg/L	101		90	110		
10569157	758164	4043248BLANK_10569157	4043248		MB	INITIAL	NO3/NO2-N	T	1	7/22/21	METHOD	7/22/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10569157	758164	4043249LCS_10569157	4043249		LCS	INITIAL	NO3/NO2-N	T	1	7/22/21	METHOD	7/22/21	SM 4500-NO3-H		2.5	2.4	0.078	0.2	mg/L	97		90	110		
10569157	758164	SWBF0081-070821MS	4043250	SWBF0081-070821	MS	INITIAL	NO3/NO2-N	T	1	7/22/21	METHOD	7/22/21	SM 4500-NO3-H	0.91	2.5	3	0.078	0.2	mg/L	84		80	120		
10569157	758164	SWBF0081-070821MSD	4043251	SWBF0081-070821	MSD	INITIAL	NO3/NO2-N	T	1	7/22/21	METHOD	7/22/21	SM 4500-NO3-H	0.91	2.5	3.4	0.078	0.2	mg/L	101	13	80	120	20	
10569157	758164	SWBF0082-070821MS	4043252	SWBF0082-070821	MS	INITIAL	NO3/NO2-N	T	1	7/22/21	METHOD	7/22/21	SM 4500-NO3-H	1.1	2.5	3.6	0.078	0.2	mg/L	100		80	120		
10569157	758164	SWBF0082-070821MSD	4043253	SWBF0082-070821	MSD	INITIAL	NO3/NO2-N	T	1	7/22/21	METHOD	7/22/21	SM 4500-NO3-H	1.1	2.5	3.3	0.078	0.2	mg/L	89	8	80	120	20	
10569157	757766	4040893BLANK_10569157	4040893		MB	INITIAL	P	T	1	7/21/21	SM4500-P-B	7/22/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10569157	757766	4040894LCS_10569157	4040894		LCS	INITIAL	P	T	1	7/21/21	SM4500-P-B	7/22/21	SM 4500-P-F		2.5	2.3	0.05	0.1	mg/L	90		90	110		
10569157	757766	SWBF0081-070821MSD	4040898	SWBF0081-070821	MSD	INITIAL	P	T	1	7/21/21	SM4500-P-B	7/22/21	SM 4500-P-F	0.061	2.5	2.5	0.05	0.1	mg/L	99	3	80	120	20	
10569157	757766	SWBF0081-070821MS	4040897	SWBF0081-070821	MS	INITIAL	P	T	1	7/21/21	SM4500-P-B	7/22/21	SM 4500-P-F	0.061	2.5	2.5	0.05	0.1	mg/L	96		80	120		
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	PbDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		0.1	0.11	0.000028	0.0001	mg/L	107		85	115		
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	PbDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.000069	0.1	0.11	0.000028	0.0001	mg/L	105	1	70	130	20	
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	PbDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.000069	0.1	0.11	0.000028	0.0001	mg/L	106		70	130		
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	PbDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10569157	755301	4027605BLANK_10569157	4027605		MB	INITIAL	PbTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10569157	755301	4027606LCS_10569157	4027606		LCS	INITIAL	PbTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8		0.1	0.097	0.000028	0.0001	mg/L	97		85	115		
10569157	755301	SWBF0081-070821MS	4027607	SWBF0081-070821	MS	INITIAL	PbTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.00091	0.1	0.088	0.00014	0.0005	mg/L	88		70	130		
10569157	755301	SWBF0081-070821MSD	4027608	SWBF0081-070821	MSD	INITIAL	PbTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.00091	0.1	0.091	0.00014	0.0005	mg/L	90	3	70	130	20	
10569157	757196	SWBF0081-070821MS	4037601	SWBF0081-070821	MS	INITIAL	SO4	T	20	7/19/21	METHOD	7/19/21	ASTM D516-90-0	473	40	444	24.2	50	mg/L	0		80	120		
10569157	757196	4037596BLANK_10569157	4037596		MB	INITIAL	SO4	T	1	7/19/21	METHOD	7/19/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10569157	757196	4037597LCS_10569157	4037597		LCS	INITIAL	SO4	T	1	7/19/21	METHOD	7/19/21	ASTM D516-90-02		20	18.4	1.2	2.5	mg/L	92		80	120		
10569157	757196	4037598LCSD_10569157	4037598	037597LCS_1056915	LCSD	INITIAL	SO4	T	1	7/19/21	METHOD	7/19/21	ASTM D516-90-02		20	16.7	1.2	2.5	mg/L	83	10	80	120	20	
10569157	757196	SWBF0081-070821MSD	4037602	SWBF0081-070821	MSD	INITIAL	SO4	T	20	7/19/21	METHOD	7/19/21	ASTM D516-90-0	473	40	454	24.2	50	mg/L	0	2	80	120	30	
10569157	756473	4033577BLANK_10569157	4033577		MB	INITIAL	TDS	D	1	7/15/21	METHOD	7/15/21	SM 2540C			5	5	10	mg/L						
10569157	756473	4033578LCS_10569157	4033578		LCS	INITIAL	TDS	D	1	7/15/21	METHOD	7/15/21	SM 2540C		1000	898	10	20	mg/L	90		80	120		
10569157	756473	SWBF0081-070821DUP	4033580	SWBF0081-070821	LR	INITIAL	TDS	D	1	7/15/21	METHOD	7/15/21	SM 2540C	834		822	10	20	mg/L		1			5	
10569157	733215	SWBF0081-070821MSD	2942508	SWBF0081-070821	MSD	INITIAL	TKN	T	1	7/21/21	METHOD	7/21/21	EPA 351.2	0.26	5	5.5	0.48	0.5	mg/L	105		90	110	10	
10569157	733215	2942504BLANK_10569157	2942504		MB	INITIAL	TKN	T	1	7/21/21	METHOD	7/21/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10569157	733215	2942505LCS_10569157	2942505		LCS	INITIAL	TKN	T	1	7/21/21	METHOD	7/21/21	EPA 351.2		5	5.3	0.48	0.5	mg/L	107		90	110		
10569157	733215	SWBF0081-070821MS	2942507	SWBF0081-070821	MS	INITIAL	TKN	T	1	7/21/21	METHOD	7/21/21	EPA 351.2	0.26	5	5.5	0.48	0.5	mg/L	105		90	110		
10569157	733215	SWBF0081-070821DUP	2942506	SWBF0081-070821	LR	INITIAL	TKN	T	1	7/21/21	METHOD	7/21/21	EPA 351.2	0.26		0.32	0.48	0.5	mg/L					10	
10569157	733216	2942510BLANK_10569157	2942510		MB	INITIAL	TKN	T	1	7/21/21	METHOD	7/21/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10569157	733216	2942511LCS_10569157	2942511		LCS	INITIAL	TKN	T	1	7/21/21	METHOD	7/21/21	EPA 351.2		5	5	0.48	0.5	mg/L	100		90	110		
10569157	733216	SWBF0086-070821DUP	2942513	SWBF0086-070821	LR	INITIAL	TKN	T	1	7/21/21	METHOD	7/21/21	EPA 351.2	0.12		0.21	0.48	0.5	mg/L					10	
10569157	733216	SWBF0086-070821MS	2942512	SWBF0086-070821	MS	INITIAL	TKN	T	1	7/21/21	METHOD	7/21/21	EPA 351.2	0.12	5	5.9	0.48	0.5	mg/L	116		90	110		
10569157	756475	SWBF0081-070821DUP	4033588	SWBF0081-070821	LR	INITIAL	TSS	T	1	7/15/21	METHOD	7/15/21	SM 2540D	1.9		0.2	5	10	mg/L					5	
10569157	756475	4033585BLANK_10569157	4033585		MB	INITIAL	TSS	T	1	7/15/21	METHOD	7/15/21	SM 2540D			5	5	10	mg/L						
10569157	756475	4033586LCS_10569157	4033586		LCS	INITIAL	TSS	T	1	7/15/21	METHOD	7/15/21	SM 2540D		100	97.2	10	20	mg/L	97		80	120		
10569157	757802	4041090LCS_10569157	4041090		LCS	INITIAL	ZnDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8		0.1	0.11	0.002	0.005	mg/L	105		85	115		
10569157	757802	SWBF0081-070821MSD	4041092	SWBF0081-070821	MSD	INITIAL	ZnDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.018	0.1	0.12	0.002	0.005	mg/L	105	1	70	130	20	
10569157	757802	SWBF0081-070821MS	4041091	SWBF0081-070821	MS	INITIAL	ZnDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8	0.018	0.1	0.12	0.002	0.005	mg/L	107		70	130		
10569157	757802	4041089BLANK_10569157	4041089		MB	INITIAL	ZnDis	D	1	7/22/21	EPA 200.8	7/23/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10569157	755301	SWBF0081-070821MS	4027607	SWBF0081-070821	MS	INITIAL	ZnTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.019	0.1	0.097	0.0098	0.025	mg/L	78		70	130		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10569157	755301	SWBF0081-070821MSD	4027608	SWBF0081-070821	MSD	INITIAL	ZnTR	T	5	7/12/21	EPA 200.8	7/20/21	EPA 200.8	0.019	0.1	0.099	0.0098	0.025	mg/L	80	3	70	130	20	
10569157	755301	4027606LCS_10569157	4027606		LCS	INITIAL	ZnTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8		0.1	0.089	0.002	0.005	mg/L	89		85	115		
10569157	755301	4027605BLANK_10569157	4027605		MB	INITIAL	ZnTR	T	1	7/12/21	EPA 200.8	7/20/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	AgDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		0.05	0.055	0.00016	0.0005	mg/L	109		70	130		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	AgDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		0.05	0.056	0.00016	0.0005	mg/L	111	1	70	130	20	
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	AgDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	AgDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		0.05	0.056	0.00016	0.0005	mg/L	113		85	115		
10573218	762298	4064212LCS_10573218	4064212		LCS	INITIAL	AgTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8		0.05	0.054	0.00016	0.0005	mg/L	107		85	115		
10573218	762298	4064211BLANK_10573218	4064211		MB	INITIAL	AgTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10573218	762298	SWBF0107-080421MS	4064213	SWBF0107-080421	MS	INITIAL	AgTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.00011	0.05	0.045	0.00082	0.0025	mg/L	89		70	130		
10573218	762298	SWBF0107-080421MSD	4064214	SWBF0107-080421	MSD	INITIAL	AgTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.00011	0.05	0.044	0.00082	0.0025	mg/L	87	2	70	130	20	
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	AlDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	AlDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		2	2.1	0.008	0.02	mg/L	105		85	115		
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	AlDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.018	2	2.1	0.008	0.02	mg/L	106		70	130		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	AlDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.018	2	2.2	0.008	0.02	mg/L	109	3	70	130	20	
10573218	763956	4072882BLANK_10573218	4072882		MB	INITIAL	ALK_CaCO3	T	1	8/17/21	METHOD	8/17/21	SM 2320B			1.8	1.8	5	mg/L						
10573218	763956	4072883LCS_10573218	4072883		LCS	INITIAL	ALK_CaCO3	T	1	8/17/21	METHOD	8/17/21	SM 2320B		40	42.3	1.8	5	mg/L	106		90	110		
10573218	763956	4072884LCSD_10573218	4072884	072883LCS_1057321	LCSD	INITIAL	ALK_CaCO3	T	1	8/17/21	METHOD	8/17/21	SM 2320B		40	42.2	1.8	5	mg/L	106		90	110	20	
10573218	763956	SWBF0107-080421MS	4072885	SWBF0107-080421	MS	INITIAL	ALK_CaCO3	T	1	8/17/21	METHOD	8/17/21	SM 2320B	66.9	40	107	1.8	5	mg/L	101		80	120		
10573218	763956	SWBF0107-080421MSD	4072886	SWBF0107-080421	MSD	INITIAL	ALK_CaCO3	T	1	8/17/21	METHOD	8/17/21	SM 2320B	66.9	40	108	1.8	5	mg/L	102		80	120	20	
10573218	762298	SWBF0107-080421MSD	4064214	SWBF0107-080421	MSD	INITIAL	AlTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.049	2	1.7	0.04	0.1	mg/L	84	3	70	130	20	
10573218	762298	SWBF0107-080421MS	4064213	SWBF0107-080421	MS	INITIAL	AlTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.049	2	1.8	0.04	0.1	mg/L	86		70	130		
10573218	762298	4064211BLANK_10573218	4064211		MB	INITIAL	AlTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10573218	762298	4064212LCS_10573218	4064212		LCS	INITIAL	AlTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8		2	2	0.008	0.02	mg/L	99		85	115		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	AsDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.0031	0.1	0.11	0.000083	0.0005	mg/L	111	1	70	130	20	
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	AsDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		0.1	0.1	0.000083	0.0005	mg/L	103		85	115		
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	AsDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	AsDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.0031	0.1	0.11	0.000083	0.0005	mg/L	109		70	130		
10573218	762298	4064211BLANK_10573218	4064211		MB	INITIAL	AsTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10573218	762298	4064212LCS_10573218	4064212		LCS	INITIAL	AsTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8		0.1	0.091	0.000083	0.0005	mg/L	91		85	115		
10573218	762298	SWBF0107-080421MSD	4064214	SWBF0107-080421	MSD	INITIAL	AsTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.0027	0.1	0.084	0.00041	0.0025	mg/L	81	4	70	130	20	
10573218	762298	SWBF0107-080421MS	4064213	SWBF0107-080421	MS	INITIAL	AsTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.0027	0.1	0.087	0.00041	0.0025	mg/L	85		70	130		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	CaDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	228	2	232	0.018	0.04	mg/L	205	1	70	130	20	
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	CaDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	228	2	230	0.018	0.04	mg/L	100		70	130		
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	CaDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.018	0.018	0.04	mg/L						
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	CaDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		2	2.1	0.018	0.04	mg/L	103		85	115		
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	CdDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	CdDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		0.1	0.1	0.000016	0.00008	mg/L	104		85	115		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	CdDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.000063	0.1	0.1	0.000016	0.00008	mg/L	105	1	70	130	20	
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	CdDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.000063	0.1	0.1	0.000016	0.00008	mg/L	104		70	130		
10573218	762298	SWBF0107-080421MS	4064213	SWBF0107-080421	MS	INITIAL	CdTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.000084	0.1	0.088	0.00008	0.0004	mg/L	87		70	130		
10573218	762298	SWBF0107-080421MSD	4064214	SWBF0107-080421	MSD	INITIAL	CdTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.000084	0.1	0.085	0.00008	0.0004	mg/L	85	3	70	130	20	
10573218	762298	4064211BLANK_10573218	4064211		MB	INITIAL	CdTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10573218	762298	4064212LCS_10573218	4064212		LCS	INITIAL	CdTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8		0.1	0.096	0.000016	0.00008	mg/L	96		85	115		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	CuDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.0023	0.1	0.11	0.0005	0.001	mg/L	108	1	70	130	20	
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	CuDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	CuDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		0.1	0.11	0.0005	0.001	mg/L	109		85	115		
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	CuDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.0023	0.1	0.11	0.0005	0.001	mg/L	110		70	130		
10573218	762298	4064212LCS_10573218	4064212		LCS	INITIAL	CuTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8		0.1	0.095	0.0005	0.001	mg/L	95		85	115		
10573218	762298	4064211BLANK_10573218	4064211		MB	INITIAL	CuTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10573218	762298	SWBF0107-080421MSD	4064214	SWBF0107-080421	MSD	INITIAL	CuTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.0037	0.1	0.084	0.0025	0.005	mg/L	80	2	70	130	20	
10573218	762298	SWBF0107-080421MS	4064213	SWBF0107-080421	MS	INITIAL	CuTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.0037	0.1	0.086	0.0025	0.005	mg/L	82		70	130		
10573218	738148	2959455BLANK_10573218	2959455		MB	INITIAL	DOC	D	1	8/16/21	METHOD	8/16/21	SM 5310C			0.3	0.3	1	mg/L						
10573218	738148	2959456LCS_10573218	2959456		LCS	INITIAL	DOC	D	1	8/16/21	METHOD	8/16/21	SM 5310C		5	5	0.3	1	mg/L	101		80	120		
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	FeDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	FeDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	107		85	115		
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	FeDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.0082	2	2.2	0.012	0.05	mg/L	107		70	130		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	FeDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.0082	2	2.2	0.012	0.05	mg/L	111	3	70	130	20	
10573218	762298	4064212LCS_10573218	4064212		LCS	INITIAL	FeTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	103		85	115		
10573218	762298	4064211BLANK_10573218	4064211		MB	INITIAL	FeTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10573218	762298	SWBF0107-080421MSD	4064214	SWBF0107-080421	MSD	INITIAL	FeTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.08	2	1.8	0.06	0.25	mg/L	88	4	70	130	20	
10573218	762298	SWBF0107-080421MS	4064213	SWBF0107-080421	MS	INITIAL	FeTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.08	2	1.9	0.06	0.25	mg/L	92		70	130		
10573218	762746	SWBF0108-080421MS	4066615	SWBF0108-080421	MS	INITIAL	HgDis	D	1	8/11/21	EPA 245.1	8/12/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	99		70	130		
10573218	762746	SWBF0108-080421MSD	4066616	SWBF0108-080421	MSD	INITIAL	HgDis	D	1	8/11/21	EPA 245.1	8/12/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	101	2	70	130	20	
10573218	762746	4066613BLANK_10573218	4066613		MB	INITIAL	HgDis	D	1	8/11/21	EPA 245.1	8/12/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10573218	762746	4066614LCS_10573218	4066614		LCS	INITIAL	HgDis	D	1	8/11/21	EPA 245.1	8/12/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	100		85	115		
10573218	762416	SWBF0107-080421MSD	4065175	SWBF0107-080421	MSD	INITIAL	HgTR	T	1	8/10/21	EPA 245.1	8/11/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	103		70	130	20	
10573218	762416	4065172BLANK_10573218	4065172		MB	INITIAL	HgTR	T	1	8/10/21	EPA 245.1	8/11/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10573218	762416	4065173LCS_10573218	4065173		LCS	INITIAL	HgTR	T	1	8/10/21	EPA 245.1	8/11/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	105		85	115		
10573218	762416	SWBF0107-080421MS	4065174	SWBF0107-080421	MS	INITIAL	HgTR	T	1	8/10/21	EPA 245.1	8/11/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	103		70	130		
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	MgDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		2	2.2	0.0034	0.01	mg/L	109		85	115		
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	MgDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	9.2	2	11.3	0.0034	0.01	mg/L	108		70	130		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	MgDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	9.2	2	11.5	0.0034	0.01	mg/L	115	1	70	130	20	
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	MgDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.0034	0.0034	0.01	mg/L						
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	MoDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		0.1	0.099	0.000094	0.0005	mg/L	99		85	115		
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	MoDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	MoDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.34	0.1	0.45	0.000094	0.0005	mg/L	115		70	130		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	MoDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.34	0.1	0.46	0.000094	0.0005	mg/L	121	1	70	130	20	
10573218	762298	4064212LCS_10573218	4064212		LCS	INITIAL	MoTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8		0.1	0.097	0.000094	0.0005	mg/L	97		85	115		
10573218	762298	SWBF0107-080421MS	4064213	SWBF0107-080421	MS	INITIAL	MoTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.32	0.1	0.37	0.00047	0.0025	mg/L	47		70	130		
10573218	762298	SWBF0107-080421MSD	4064214	SWBF0107-080421	MSD	INITIAL	MoTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.32	0.1	0.35	0.00047	0.0025	mg/L	32	4	70	130	20	
10573218	762298	4064211BLANK_10573218	4064211		MB	INITIAL	MoTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10573218	763545	SWBF0107-080421MS	4071304	SWBF0107-080421	MS	INITIAL	NH3-N	T	1	8/15/21	METHOD	8/15/21	EPA 350.1	0.02	2.5	2.6	0.03	0.1	mg/L	104		90	110		
10573218	763545	SWBF0107-080421MSD	4071305	SWBF0107-080421	MSD	INITIAL	NH3-N	T	1	8/15/21	METHOD	8/15/21	EPA 350.1	0.02	2.5	2.7	0.03	0.1	mg/L	107	3	90	110	20	
10573218	763545	4071300BLANK_10573218	4071300		MB	INITIAL	NH3-N	T	1	8/15/21	METHOD	8/15/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10573218	763545	4071301LCS_10573218	4071301		LCS	INITIAL	NH3-N	T	1	8/15/21	METHOD	8/15/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	98		90	110		
10573218	763546	4071306BLANK_10573218	4071306		MB	INITIAL	NH3-N	T	1	8/15/21	METHOD	8/15/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10573218	763546	4071307LCS_10573218	4071307		LCS	INITIAL	NH3-N	T	1	8/15/21	METHOD	8/15/21	EPA 350.1		2.5	2.4	0.03	0.1	mg/L	98		90	110		
10573218	763546	SWBF0115-080421MS	4071308	SWBF0115-080421	MS	INITIAL	NH3-N	T	1	8/15/21	METHOD	8/15/21	EPA 350.1	0.0054	2.5	2.4	0.03	0.1	mg/L	98		90	110		
10573218	763546	SWBF0115-080421MSD	4071309	SWBF0115-080421	MSD	INITIAL	NH3-N	T	1	8/15/21	METHOD	8/15/21	EPA 350.1	0.0054	2.5	2.4	0.03	0.1	mg/L	96	2	90	110	20	
10573218	761844	SWBF0116-080421MS	4061666	SWBF0116-080421	MS	INITIAL	NO3/NO2-N	T	2	8/6/21	METHOD	8/6/21	SM 4500-NO3-H	1.2	2.5	3.5	0.16	0.4	mg/L	89		80	120		
10573218	761844	SWBF0116-080421MSD	4061667	SWBF0116-080421	MSD	INITIAL	NO3/NO2-N	T	1	8/6/21	METHOD	8/6/21	SM 4500-NO3-H	1.2	2.5	3.3	0.078	0.2	mg/L	83	4	80	120	20	
10573218	761844	4061662BLANK_10573218	4061662		MB	INITIAL	NO3/NO2-N	T	1	8/6/21	METHOD	8/6/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10573218	761844	4061663LCS_10573218	4061663		LCS	INITIAL	NO3/NO2-N	T	1	8/6/21	METHOD	8/6/21	SM 4500-NO3-H		2.5	2.4	0.078	0.2	mg/L	96		90	110		
10573218	764023	4073093BLANK_10573218	4073093		MB	INITIAL	P	T	1	8/17/21	SM4500-P-B	8/18/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10573218	764023	4073094LCS_10573218	4073094		LCS	INITIAL	P	T	1	8/17/21	SM4500-P-B	8/18/21	SM 4500-P-F		2.5	2.6	0.05	0.1	mg/L	103		90	110		
10573218	764333	4074320BLANK_10573218	4074320		MB	INITIAL	P	T	1	8/18/21	SM4500-P-B	8/19/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10573218	764333	4074321LCS_10573218	4074321		LCS	INITIAL	P	T	1	8/18/21	SM4500-P-B	8/19/21	SM 4500-P-F		2.5	2.5	0.05	0.1	mg/L	98		90	110		
10573218	764333	SWBF0110-080421MS	4074322	SWBF0110-080421	MS	INITIAL	P	T	1	8/18/21	SM4500-P-B	8/19/21	SM 4500-P-F	0.011	2.5	2.6	0.05	0.1	mg/L	102		80	120		
10573218	764333	SWBF0110-080421MSD	4074323	SWBF0110-080421	MSD	INITIAL	P	T	1	8/18/21	SM4500-P-B	8/19/21	SM 4500-P-F	0.011	2.5	2.6	0.05	0.1	mg/L	105	3	80	120	20	
10573218	764333	SWBF0112-080421MS	4074324	SWBF0112-080421	MS	INITIAL	P	T	1	8/18/21	SM4500-P-B	8/19/21	SM 4500-P-F	0.054	2.5	2.6	0.05	0.1	mg/L	103		80	120		
10573218	764333	SWBF0112-080421MSD	4074325	SWBF0112-080421	MSD	INITIAL	P	T	1	8/18/21	SM4500-P-B	8/19/21	SM 4500-P-F	0.054	2.5	2.7	0.05	0.1	mg/L	104	2	80	120	20	
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	PbDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		0.1	0.1	0.000028	0.0001	mg/L	104		85	115		
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	PbDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	PbDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.000078	0.1	0.11	0.000028	0.0001	mg/L	109		70	130		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	PbDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.000078	0.1	0.11	0.000028	0.0001	mg/L	108	1	70	130	20	
10573218	762298	SWBF0107-080421MSD	4064214	SWBF0107-080421	MSD	INITIAL	PbTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.00087	0.1	0.084	0.00014	0.0005	mg/L	83	3	70	130	20	
10573218	762298	4064211BLANK_10573218	4064211		MB	INITIAL	PbTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10573218	762298	SWBF0107-080421MS	4064213	SWBF0107-080421	MS	INITIAL	PbTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.00087	0.1	0.086	0.00014	0.0005	mg/L	85		70	130		
10573218	762298	4064212LCS_10573218	4064212		LCS	INITIAL	PbTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8		0.1	0.099	0.000028	0.0001	mg/L	99		85	115		
10573218	764346	4074413BLANK_10573218	4074413		MB	INITIAL	SO4	T	1	8/20/21	METHOD	8/20/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10573218	764346	4074414LCS_10573218	4074414		LCS	INITIAL	SO4	T	1	8/19/21	METHOD	8/19/21	ASTM D516-90-02		20	18.2	1.2	2.5	mg/L	91		80	120		
10573218	764346	4074415LCSD_10573218	4074415	074414LCS_1057321	LCSD	INITIAL	SO4	T	1	8/19/21	METHOD	8/19/21	ASTM D516-90-02		20	19.2	1.2	2.5	mg/L	96	5	80	120	20	
10573218	762331	4064315BLANK_10573218	4064315		MB	INITIAL	TDS	D	1	8/10/21	METHOD	8/10/21	SM 2540C			5	5	10	mg/L						
10573218	762331	4064316LCS_10573218	4064316		LCS	INITIAL	TDS	D	1	8/10/21	METHOD	8/10/21	SM 2540C		1000	1010	10	20	mg/L	101		80	120		
10573218	738102	2959337BLANK_10573218	2959337		MB	INITIAL	TKN	T	1	8/16/21	METHOD	8/17/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10573218	738102	2959338LCS_10573218	2959338		LCS	INITIAL	TKN	T	1	8/16/21	METHOD	8/17/21	EPA 351.2		5	5.3	0.48	0.5	mg/L	106		90	110		
10573218	738102	SWBF0110-080421MS	2959341	SWBF0110-080421	MS	INITIAL	TKN	T	1	8/16/21	METHOD	8/17/21	EPA 351.2	0.04	5	3.4	0.48	0.5	mg/L	67		90	110		
10573218	762333	4064326BLANK_10573218	4064326		MB	INITIAL	TSS	T	1	8/10/21	METHOD	8/10/21	SM 2540D			5	5	10	mg/L						
10573218	762333	4064327LCS_10573218	4064327		LCS	INITIAL	TSS	T	1	8/10/21	METHOD	8/10/21	SM 2540D		100	93.8	10	20	mg/L	94		80	120		
10573218	762870	4067388BLANK_10573218	4067388		MB	INITIAL	TSS	T	1	8/11/21	METHOD	8/11/21	SM 2540D			5	5	10	mg/L						
10573218	762870	4067389LCS_10573218	4067389		LCS	INITIAL	TSS	T	1	8/11/21	METHOD	8/11/21	SM 2540D		100	85.6	10	20	mg/L	86		80	120		
10573218	762296	4064202BLANK_10573218	4064202		MB	INITIAL	ZnDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10573218	762296	4064203LCS_10573218	4064203		LCS	INITIAL	ZnDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8		0.1	0.1	0.002	0.005	mg/L	104		85	115		
10573218	762296	SWBF0107-080421MSD	4064205	SWBF0107-080421	MSD	INITIAL	ZnDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.018	0.1	0.12	0.002	0.005	mg/L	105		70	130	20	
10573218	762296	SWBF0107-080421MS	4064204	SWBF0107-080421	MS	INITIAL	ZnDis	D	1	8/13/21	EPA 200.8	8/16/21	EPA 200.8	0.018	0.1	0.12	0.002	0.005	mg/L	105		70	130		
10573218	762298	4064211BLANK_10573218	4064211		MB	INITIAL	ZnTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10573218	762298	4064212LCS_10573218	4064212		LCS	INITIAL	ZnTR	T	1	8/13/21	EPA 200.8	8/17/21	EPA 200.8		0.1	0.09	0.002	0.005	mg/L	90		85	115		
10573218	762298	SWBF0107-080421MS	4064213	SWBF0107-080421	MS	INITIAL	ZnTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.017	0.1	0.098	0.0098	0.025	mg/L	81		70	130		
10573218	762298	SWBF0107-080421MSD	4064214	SWBF0107-080421	MSD	INITIAL	ZnTR	T	5	8/13/21	EPA 200.8	8/17/21	EPA 200.8	0.017	0.1	0.096	0.0098	0.025	mg/L	78	2	70	130	20	

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	AgDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.0001	0.05	0.05	0.00016	0.0005	mg/L	100	1	70	130	20	
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	AgDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.0001	0.05	0.051	0.00016	0.0005	mg/L	102		70	130		
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	AgDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	AgDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.05	0.053	0.00016	0.0005	mg/L	106		85	115		
10577494	768648	SWBF0133-090121MS	4096080	SWBF0133-090121	MS	INITIAL	AgTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.00019	0.05	0.052	0.00016	0.0005	mg/L	104		70	130		
10577494	768648	SWBF0133-090121MSD	4096081	SWBF0133-090121	MSD	INITIAL	AgTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.00019	0.05	0.053	0.00016	0.0005	mg/L	105	1	70	130	20	
10577494	768648	4096078BLANK_10577494	4096078		MB	INITIAL	AgTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10577494	768648	4096079LCS_10577494	4096079		LCS	INITIAL	AgTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.05	0.052	0.00016	0.0005	mg/L	105		85	115		
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	AlDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.027	2	2	0.008	0.02	mg/L	99	1	70	130	20	
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	AlDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.027	2	2	0.008	0.02	mg/L	100		70	130		
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	AlDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	AlDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		2	2.1	0.008	0.02	mg/L	103		85	115		
10577494	769987	SWBF0133-090121MSD	4102571	SWBF0133-090121	MSD	INITIAL	ALK_CaCO3	T	1	9/14/21	METHOD	9/14/21	SM 2320B	75.2	40	117	1.8	5	mg/L	103	1	80	120	20	
10577494	769987	SWBF0140-090121MSD	4102573	SWBF0140-090121	MSD	INITIAL	ALK_CaCO3	T	1	9/14/21	METHOD	9/14/21	SM 2320B	120	40	161	1.8	5	mg/L	103		80	120	20	
10577494	769987	SWBF0140-090121MS	4102572	SWBF0140-090121	MS	INITIAL	ALK_CaCO3	T	1	9/14/21	METHOD	9/14/21	SM 2320B	120	40	160	1.8	5	mg/L	102		80	120		
10577494	769987	SWBF0133-090121MS	4102569	SWBF0133-090121	MS	INITIAL	ALK_CaCO3	T	1	9/14/21	METHOD	9/14/21	SM 2320B	75.2	40	115	1.8	5	mg/L	101		80	120		
10577494	769987	4102563BLANK_10577494	4102563		MB	INITIAL	ALK_CaCO3	T	1	9/14/21	METHOD	9/14/21	SM 2320B			1.8	1.8	5	mg/L						
10577494	769987	4102565LCS_10577494	4102565		LCS	INITIAL	ALK_CaCO3	T	1	9/14/21	METHOD	9/14/21	SM 2320B		40	43.4	1.8	5	mg/L	109		90	110		
10577494	769987	4102567LCSD_10577494	4102567	102565LCS_1057749	LCSD	INITIAL	ALK_CaCO3	T	1	9/14/21	METHOD	9/14/21	SM 2320B		40	43.3	1.8	5	mg/L	108		90	110	20	
10577494	768648	4096078BLANK_10577494	4096078		MB	INITIAL	AlTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10577494	768648	SWBF0133-090121MS	4096080	SWBF0133-090121	MS	INITIAL	AlTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.07	2	2.1	0.008	0.02	mg/L	102		70	130		
10577494	768648	SWBF0133-090121MSD	4096081	SWBF0133-090121	MSD	INITIAL	AlTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.07	2	2.2	0.008	0.02	mg/L	107	4	70	130	20	
10577494	768648	4096079LCS_10577494	4096079		LCS	INITIAL	AlTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		2	2	0.008	0.02	mg/L	102		85	115		
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	AsDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.11	0.000083	0.0005	mg/L	106		85	115		
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	AsDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.0033	0.1	0.11	0.000083	0.0005	mg/L	109		70	130		
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	AsDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	AsDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.0033	0.1	0.11	0.000083	0.0005	mg/L	107	1	70	130	20	
10577494	768648	SWBF0133-090121MS	4096080	SWBF0133-090121	MS	INITIAL	AsTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.0033	0.1	0.11	0.000083	0.0005	mg/L	109		70	130		
10577494	768648	SWBF0133-090121MSD	4096081	SWBF0133-090121	MSD	INITIAL	AsTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.0033	0.1	0.11	0.000083	0.0005	mg/L	111	2	70	130	20	
10577494	768648	4096078BLANK_10577494	4096078		MB	INITIAL	AsTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10577494	768648	4096079LCS_10577494	4096079		LCS	INITIAL	AsTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.11	0.000083	0.0005	mg/L	105		85	115		
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	CaDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	198	2	255	0.018	0.04	mg/L	2830	3	70	130	20	
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	CaDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	198	2	264	0.018	0.04	mg/L	3260		70	130		
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	CaDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.018	0.018	0.04	mg/L						
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	CaDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		2	2.1	0.018	0.04	mg/L	105		85	115		
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	CdDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	CdDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.000026	0.1	0.1	0.000016	0.00008	mg/L	103		70	130		
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	CdDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.000026	0.1	0.1	0.000016	0.00008	mg/L	102	1	70	130	20	
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	CdDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.11	0.000016	0.00008	mg/L	106		85	115		
10577494	768648	SWBF0133-090121MSD	4096081	SWBF0133-090121	MSD	INITIAL	CdTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.000042	0.1	0.11	0.000016	0.00008	mg/L	108	2	70	130	20	
10577494	768648	SWBF0133-090121MS	4096080	SWBF0133-090121	MS	INITIAL	CdTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.000042	0.1	0.11	0.000016	0.00008	mg/L	105		70	130		
10577494	768648	4096079LCS_10577494	4096079		LCS	INITIAL	CdTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.1	0.000016	0.00008	mg/L	104		85	115		
10577494	768648	4096078BLANK_10577494	4096078		MB	INITIAL	CdTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	CuDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.0023	0.1	0.11	0.0005	0.001	mg/L	104	1	70	130	20	
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	CuDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.11	0.0005	0.001	mg/L	108		85	115		
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	CuDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.0023	0.1	0.11	0.0005	0.001	mg/L	105		70	130		
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	CuDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10577494	768648	4096078BLANK_10577494	4096078		MB	INITIAL	CuTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10577494	768648	4096079LCS_10577494	4096079		LCS	INITIAL	CuTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.11	0.0005	0.001	mg/L	107		85	115		
10577494	768648	SWBF0133-090121MS	4096080	SWBF0133-090121	MS	INITIAL	CuTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.0049	0.1	0.11	0.0005	0.001	mg/L	106		70	130		
10577494	768648	SWBF0133-090121MSD	4096081	SWBF0133-090121	MSD	INITIAL	CuTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.0049	0.1	0.11	0.0005	0.001	mg/L	110	4	70	130	20	
10577494	743558	SWBF0133-090121MS	2978831	SWBF0133-090121	MS	INITIAL	DOC	D	1	9/15/21	METHOD	9/15/21	SM 5310C	2.2	5	7.6	0.3	1	mg/L	107		80	120		
10577494	743558	SWBF0133-090121DUP	2978832	SWBF0133-090121	LR	INITIAL	DOC	D	1	9/15/21	METHOD	9/15/21	SM 5310C	2.2		2.3	0.3	1	mg/L		1			25	
10577494	743558	2978829BLANK_10577494	2978829		MB	INITIAL	DOC	D	1	9/15/21	METHOD	9/15/21	SM 5310C			0.3	0.3	1	mg/L						
10577494	743558	2978830LCS_10577494	2978830		LCS	INITIAL	DOC	D	1	9/15/21	METHOD	9/15/21	SM 5310C		5	5	0.3	1	mg/L	100		80	120		
10577494	744152	2981261BLANK_10577494	2981261		MB	INITIAL	DOC	D	1	9/18/21	METHOD	9/18/21	SM 5310C			0.3	0.3	1	mg/L						
10577494	744152	2981262LCS_10577494	2981262		LCS	INITIAL	DOC	D	1	9/18/21	METHOD	9/18/21	SM 5310C		5	5.2	0.3	1	mg/L	104		80	120		
10577494	744152	2988739BLANK_10577494	2988739		MB	INITIAL	DOC	D	1	9/28/21	METHOD	9/28/21	SM 5310C			0.3	0.3	1	mg/L						
10577494	744152	2988740LCS_10577494	2988740		LCS	INITIAL	DOC	D	1	9/28/21	METHOD	9/28/21	SM 5310C		5	5.4	0.3	1	mg/L	108		80	120		
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	FeDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	103		85	115		
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	FeDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.057	2	2	0.012	0.05	mg/L	95	3	70	130	20	
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	FeDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	FeDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.057	2	2	0.012	0.05	mg/L	99		70	130		
10577494	768648	4096079LCS_10577494	4096079		LCS	INITIAL	FeTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	104		85	115		
10577494	768648	SWBF0133-090121MS	4096080	SWBF0133-090121	MS	INITIAL	FeTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.1	2	2.2	0.012	0.05	mg/L	103		70	130		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10577494	768648	SWBF0133-090121MSD	4096081	SWBF0133-090121	MSD	INITIAL	FeTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.1	2	2.3	0.012	0.05	mg/L	108	5	70	130	20	
10577494	768648	4096078BLANK_10577494	4096078		MB	INITIAL	FeTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10577494	770040	4102757BLANK_10577494	4102757		MB	INITIAL	HgDis	D	1	9/14/21	EPA 245.1	9/15/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10577494	770040	4102758LCS_10577494	4102758		LCS	INITIAL	HgDis	D	1	9/14/21	EPA 245.1	9/15/21	EPA 245.1		0.0001	0.000098	0.0000047	0.00001	mg/L	98		85	115		
10577494	770040	SWBF0133-090121MS	4102759	SWBF0133-090121	MS	INITIAL	HgDis	D	1	9/14/21	EPA 245.1	9/15/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	100		70	130		
10577494	770040	SWBF0133-090121MSD	4102760	SWBF0133-090121	MSD	INITIAL	HgDis	D	1	9/14/21	EPA 245.1	9/15/21	EPA 245.1		0.0001	0.000099	0.0000047	0.00001	mg/L	99	1	70	130	20	
10577494	769437	SWBF0133-090121MSD	4099874	SWBF0133-090121	MSD	INITIAL	HgTR	T	1	9/13/21	EPA 245.1	9/14/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	101	2	70	130	20	
10577494	769437	4099871BLANK_10577494	4099871		MB	INITIAL	HgTR	T	1	9/13/21	EPA 245.1	9/14/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10577494	769437	4099872LCS_10577494	4099872		LCS	INITIAL	HgTR	T	1	9/13/21	EPA 245.1	9/14/21	EPA 245.1		0.0001	0.000099	0.0000047	0.00001	mg/L	99		85	115		
10577494	769437	SWBF0133-090121MS	4099873	SWBF0133-090121	MS	INITIAL	HgTR	T	1	9/13/21	EPA 245.1	9/14/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	99		70	130		
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	MgDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		2	2.1	0.0034	0.01	mg/L	104		85	115		
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	MgDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.0034	0.0034	0.01	mg/L						
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	MgDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	9.3	2	11.1	0.0034	0.01	mg/L	89		70	130		
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	MgDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	9.3	2	10.7	0.0034	0.01	mg/L	69	4	70	130	20	
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	MoDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	MoDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.1	0.000094	0.0005	mg/L	104		85	115		
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	MoDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.43	0.1	0.52	0.000094	0.0005	mg/L	91		70	130		
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	MoDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.43	0.1	0.5	0.000094	0.0005	mg/L	75	3	70	130	20	
10577494	768648	SWBF0133-090121MS	4096080	SWBF0133-090121	MS	INITIAL	MoTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.4	0.1	0.54	0.000094	0.0005	mg/L	139		70	130		
10577494	768648	SWBF0133-090121MSD	4096081	SWBF0133-090121	MSD	INITIAL	MoTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.4	0.1	0.54	0.000094	0.0005	mg/L	139		70	130	20	
10577494	768648	4096078BLANK_10577494	4096078		MB	INITIAL	MoTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10577494	768648	4096079LCS_10577494	4096079		LCS	INITIAL	MoTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.1	0.000094	0.0005	mg/L	101		85	115		
10577494	771079	4108407BLANK_10577494	4108407		MB	INITIAL	NH3-N	T	1	9/19/21	METHOD	9/19/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10577494	771079	4108408LCS_10577494	4108408		LCS	INITIAL	NH3-N	T	1	9/19/21	METHOD	9/19/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	102		90	110		
10577494	771079	SWBF0133-090121MS	4108409	SWBF0133-090121	MS	INITIAL	NH3-N	T	1	9/19/21	METHOD	9/19/21	EPA 350.1	0.007	2.5	2.5	0.03	0.1	mg/L	101		90	110		
10577494	771079	SWBF0133-090121MSD	4108410	SWBF0133-090121	MSD	INITIAL	NH3-N	T	1	9/19/21	METHOD	9/19/21	EPA 350.1	0.007	2.5	2.6	0.03	0.1	mg/L	102		90	110	20	
10577494	769329	4099381BLANK_10577494	4099381		MB	INITIAL	NO3/NO2-N	T	1	9/10/21	METHOD	9/10/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10577494	769329	4099382LCS_10577494	4099382		LCS	INITIAL	NO3/NO2-N	T	1	9/10/21	METHOD	9/10/21	SM 4500-NO3-H		2.5	2.5	0.078	0.2	mg/L	100		90	110		
10577494	769329	SWBF0133-090121MS	4099385	SWBF0133-090121	MS	INITIAL	NO3/NO2-N	T	1	9/10/21	METHOD	9/10/21	SM 4500-NO3-H	0.85	2.5	3.5	0.078	0.2	mg/L	105		80	120		
10577494	769329	SWBF0133-090121MSD	4099386	SWBF0133-090121	MSD	INITIAL	NO3/NO2-N	T	1	9/10/21	METHOD	9/10/21	SM 4500-NO3-H	0.85	2.5	3.4	0.078	0.2	mg/L	103	1	80	120	20	
10577494	769961	SWBF0133-090121MS	4102465	SWBF0133-090121	MS	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F	0.054	2.5	2.4	0.05	0.1	mg/L	93		80	120		
10577494	769961	4102461BLANK_10577494	4102461		MB	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10577494	769961	4102462LCS_10577494	4102462		LCS	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F		2.5	2.4	0.05	0.1	mg/L	97		90	110		
10577494	769961	SWBF0133-090121MSD	4102466	SWBF0133-090121	MSD	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F	0.054	2.5	2.5	0.05	0.1	mg/L	96	4	80	120	20	
10577494	769963	SWBF0138-090121MS	4102479	SWBF0138-090121	MS	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F	0.045	2.5	2.4	0.05	0.1	mg/L	94		80	120		
10577494	769963	SWBF0138-090121MSD	4102480	SWBF0138-090121	MSD	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F	0.045	2.5	2.4	0.05	0.1	mg/L	94		80	120	20	
10577494	769963	4102477BLANK_10577494	4102477		MB	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10577494	769963	4102478LCS_10577494	4102478		LCS	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F		2.5	2.3	0.05	0.1	mg/L	92		90	110		
10577494	769963	SWBF0139-090121MSD	4102483	SWBF0139-090121	MSD	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F	0.035	2.5	2.4	0.05	0.1	mg/L	93	1	80	120	20	
10577494	769963	SWBF0139-090121MS	4102481	SWBF0139-090121	MS	INITIAL	P	T	1	9/15/21	SM4500-P-B	9/15/21	SM 4500-P-F	0.035	2.5	2.4	0.05	0.1	mg/L	94		80	120		
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	PbDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.00025	0.1	0.1	0.000028	0.0001	mg/L	102		70	130		
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	PbDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	PbDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.1	0.000028	0.0001	mg/L	103		85	115		
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	PbDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.00025	0.1	0.1	0.000028	0.0001	mg/L	102	1	70	130	20	
10577494	768648	SWBF0133-090121MS	4096080	SWBF0133-090121	MS	INITIAL	PbTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.0011	0.1	0.11	0.000028	0.0001	mg/L	106		70	130		
10577494	768648	SWBF0133-090121MSD	4096081	SWBF0133-090121	MSD	INITIAL	PbTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.0011	0.1	0.11	0.000028	0.0001	mg/L	110	4	70	130	20	
10577494	768648	4096078BLANK_10577494	4096078		MB	INITIAL	PbTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10577494	768648	4096079LCS_10577494	4096079		LCS	INITIAL	PbTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.1	0.000028	0.0001	mg/L	104		85	115		
10577494	770605	SWBF0133-090121MS	4105601	SWBF0133-090121	MS	INITIAL	SO4	T	40	9/16/21	METHOD	9/16/21	ASTM D516-90-0	29	40	797	48.4	100	mg/L	1920		80	120		
10577494	770605	SWBF0133-090121MSD	4105602	SWBF0133-090121	MSD	INITIAL	SO4	T	40	9/16/21	METHOD	9/16/21	ASTM D516-90-0	29	40	839	48.4	100	mg/L	2020	5	80	120	30	
10577494	770605	4105596BLANK_10577494	4105596		MB	INITIAL	SO4	T	1	9/16/21	METHOD	9/16/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10577494	770605	4105597LCS_10577494	4105597		LCS	INITIAL	SO4	T	1	9/16/21	METHOD	9/16/21	ASTM D516-90-02		20	19.5	1.2	2.5	mg/L	97		80	120		
10577494	770605	4105598LCSD_10577494	4105598	105597LCS_1057749	LCSD	INITIAL	SO4	T	1	9/16/21	METHOD	9/16/21	ASTM D516-90-02		20	19.2	1.2	2.5	mg/L	96	1	80	120	20	
10577494	770618	4105668BLANK_10577494	4105668		MB	INITIAL	SO4	T	1	9/20/21	METHOD	9/20/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10577494	770618	4105669LCS_10577494	4105669		LCS	INITIAL	SO4	T	1	9/20/21	METHOD	9/20/21	ASTM D516-90-02		20	19.4	1.2	2.5	mg/L	97		80	120		
10577494	770618	4105670LCSD_10577494	4105670	105669LCS_1057749	LCSD	INITIAL	SO4	T	1	9/20/21	METHOD	9/20/21	ASTM D516-90-02		20	19.5	1.2	2.5	mg/L	98	1	80	120	20	
10577494	770618	SWBF0139-090121MS	4105671	SWBF0139-090121	MS	INITIAL	SO4	T	50	9/20/21	METHOD	9/20/21	ASTM D516-90-0	831	200	940	60.5	125	mg/L	55		80	120		
10577494	770618	SWBF0139-090121MSD	4105672	SWBF0139-090121	MSD	INITIAL	SO4	T	50	9/20/21	METHOD	9/20/21	ASTM D516-90-0	831	200	1040	60.5	125	mg/L	104	10	80	120	30	
10577494	770618	SWBF0140-090121MS	4105673	SWBF0140-090121	MS	INITIAL	SO4	T	4	9/20/21	METHOD	9/20/21	ASTM D516-90-0	39.5	40	81.8	4.8	10	mg/L	106		80	120		
10577494	770618	SWBF0140-090121MSD	4105674	SWBF0140-090121	MSD	INITIAL	SO4	T	4	9/20/21	METHOD	9/20/21	ASTM D516-90-0	39.5	40	78.6	4.8	10	mg/L	98	4	80	120	30	
10577494	771229	SWBF0136-090121MS	4109014	SWBF0136-090121	MS	INITIAL	SO4	T	2	9/20/21	METHOD	9/20/21	ASTM D516-90-0	0.23	40	37.7	2.4	5	mg/L	94		80	120		
10577494	771229	SWBF0136-090121MSD	4109015	SWBF0136-090121	MSD	INITIAL	SO4	T	2	9/20/21	METHOD	9/20/21	ASTM D516-90-0	0.23	40	37.9	2.4	5	mg/L	94	1	80	120	30	
10577494	771229	4109011BLANK_10577494	4109011		MB	INITIAL	SO4	T	1	9/20/21	METHOD	9/20/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10577494	771229	4109012LCS_10577494	4109012		LCS	INITIAL	SO4	T	1	9/20/21	METHOD	9/20/21	ASTM D516-90-02		20	19.7	1.2	2.5	mg/L	98		80	120		
10577494	771229	4109013LCSD_10577494	4109013	109012LCS_1057749	LCSD	INITIAL	SO4	T	1	9/20/21	METHOD	9/20/21	ASTM D516-90-02		20	19.3	1.2	2.5	mg/L	97	2	80	120	20	

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10577494	786625	4187500BLANK_10577494	4187500		MB	INITIAL	SO4	T	1	12/1/21	METHOD	12/1/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10577494	786625	4187501LCS_10577494	4187501		LCS	INITIAL	SO4	T	1	12/1/21	METHOD	12/1/21	ASTM D516-90-02		20	17.5	1.2	2.5	mg/L	88		80	120		
10577494	786625	4187502LCSD_10577494	4187502	187501LCS_1057749	LCSD	INITIAL	SO4	T	1	12/1/21	METHOD	12/1/21	ASTM D516-90-02		20	17.4	1.2	2.5	mg/L	87	1	80	120	20	
10577494	768272	4094468BLANK_10577494	4094468		MB	INITIAL	TDS	D	1	9/5/21	METHOD	9/5/21	SM 2540C			5	5	10	mg/L						
10577494	768272	4094469LCS_10577494	4094469		LCS	INITIAL	TDS	D	1	9/5/21	METHOD	9/5/21	SM 2540C		1000	1020	10	20	mg/L	102		80	120		
10577494	768272	SWBF0133-090121DUP	4094471	SWBF0133-090121	LR	INITIAL	TDS	D	1	9/5/21	METHOD	9/5/21	SM 2540C	1180		1170	25	50	mg/L					5	
10577494	744071	SWBF0133-090121MS	2980679	SWBF0133-090121	MS	INITIAL	TKN	T	1	9/17/21	METHOD	9/20/21	EPA 351.2	1.1	5	5.4	0.48	0.5	mg/L	86		90	110		
10577494	744071	2980677BLANK_10577494	2980677		MB	INITIAL	TKN	T	1	9/17/21	METHOD	9/20/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10577494	744071	2980678LCS_10577494	2980678		LCS	INITIAL	TKN	T	1	9/17/21	METHOD	9/20/21	EPA 351.2		5	4.8	0.48	0.5	mg/L	96		90	110		
10577494	744071	SWBF0135-090121DUP	2980680	SWBF0135-090121	LR	INITIAL	TKN	T	1	9/17/21	METHOD	9/20/21	EPA 351.2	0.047		0.4	0.48	0.5	mg/L					10	
10577494	746151	SWBF0133-090121MSD	2988756	SWBF0133-090121	MSD	INITIAL	TKN	T	1	9/29/21	METHOD	9/29/21	EPA 351.2	0.43	5	5.7	0.48	0.5	mg/L	106	16	90	110	10	
10577494	746151	2988752BLANK_10577494	2988752		MB	INITIAL	TKN	T	1	9/29/21	METHOD	9/29/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10577494	746151	2988753LCS_10577494	2988753		LCS	INITIAL	TKN	T	1	9/29/21	METHOD	9/29/21	EPA 351.2		5	5	0.48	0.5	mg/L	101		90	110		
10577494	746151	SWBF0133-090121DUP	2988754	SWBF0133-090121	LR	INITIAL	TKN	T	1	9/29/21	METHOD	9/29/21	EPA 351.2	0.43		0.35	0.48	0.5	mg/L					10	
10577494	746151	SWBF0133-090121MS2	2988755	SWBF0133-090121	MS	INITIAL	TKN	T	1	9/29/21	METHOD	9/29/21	EPA 351.2	0.43	5	6.7	0.48	0.5	mg/L	126		90	110		
10577494	768275	4094482BLANK_10577494	4094482		MB	INITIAL	TSS	T	1	9/7/21	METHOD	9/7/21	SM 2540D			5	5	10	mg/L						
10577494	768275	4094483LCS_10577494	4094483		LCS	INITIAL	TSS	T	1	9/7/21	METHOD	9/7/21	SM 2540D		100	101	10	20	mg/L	101		80	120		
10577494	768275	SWBF0136-090121DUP	4095268	SWBF0136-090121	LR	INITIAL	TSS	T	1	9/7/21	METHOD	9/7/21	SM 2540D	2		0	5	10	mg/L					5	
10577494	768275	SWBF0133-090121DUP	4094485	SWBF0133-090121	LR	INITIAL	TSS	T	1	9/7/21	METHOD	9/7/21	SM 2540D	3.5		4	5	10	mg/L					5	
10577494	768276	SWBF0137-090121DUP	4094488	SWBF0137-090121	LR	INITIAL	TSS	T	1	9/7/21	METHOD	9/7/21	SM 2540D	3.9		4.2	5	10	mg/L					5	
10577494	768276	SWBF0138-090121DUP	4094489	SWBF0138-090121	LR	INITIAL	TSS	T	1	9/7/21	METHOD	9/7/21	SM 2540D	1.6		2.6	5	10	mg/L					5	
10577494	768276	4094486BLANK_10577494	4094486		MB	INITIAL	TSS	T	1	9/7/21	METHOD	9/7/21	SM 2540D			5	5	10	mg/L						
10577494	768276	4094487LCS_10577494	4094487		LCS	INITIAL	TSS	T	1	9/7/21	METHOD	9/7/21	SM 2540D		100	100	10	20	mg/L	100		80	120		
10577494	768647	SWBF0133-090121MS	4096076	SWBF0133-090121	MS	INITIAL	ZnDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.031	0.1	0.14	0.002	0.005	mg/L	104		70	130		
10577494	768647	SWBF0133-090121MSD	4096077	SWBF0133-090121	MSD	INITIAL	ZnDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8	0.031	0.1	0.13	0.002	0.005	mg/L	103	1	70	130	20	
10577494	768647	4096075LCS_10577494	4096075		LCS	INITIAL	ZnDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.11	0.002	0.005	mg/L	110		85	115		
10577494	768647	4096074BLANK_10577494	4096074		MB	INITIAL	ZnDis	D	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10577494	768648	4096079LCS_10577494	4096079		LCS	INITIAL	ZnTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8		0.1	0.11	0.002	0.005	mg/L	108		85	115		
10577494	768648	4096078BLANK_10577494	4096078		MB	INITIAL	ZnTR	T	1	9/15/21	EPA 200.8	9/20/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10577494	768648	SWBF0133-090121MSD	4096081	SWBF0133-090121	MSD	INITIAL	ZnTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.041	0.1	0.14	0.002	0.005	mg/L	101	1	70	130	20	
10577494	768648	SWBF0133-090121MS	4096080	SWBF0133-090121	MS	INITIAL	ZnTR	T	1	9/15/21	EPA 200.8	9/21/21	EPA 200.8	0.041	0.1	0.14	0.002	0.005	mg/L	102		70	130		
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	AgDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALY2	AgDis	D	1	11/1/21	EPA 200.8	11/8/21	EPA 200.8		0.05	0.052	0.00016	0.0005	mg/L	103		85	115		
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	AgDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.000019	0.05	0.051	0.00016	0.0005	mg/L	102	7	70	130	20	
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	AgDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.000019	0.05	0.048	0.00016	0.0005	mg/L	96		70	130		
10584279	780047	4154295LCS_10584279	4154295		LCS	INITIAL	AgTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8		0.05	0.053	0.00016	0.0005	mg/L	105		85	115		
10584279	780047	4154294BLANK_10584279	4154294		MB	INITIAL	AgTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10584279	780047	SWBF0163-101821MSD	4154297	SWBF0163-101821	MSD	INITIAL	AgTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.000034	0.05	0.047	0.00016	0.0005	mg/L	94	1	70	130	20	
10584279	780047	SWBF0163-101821MS	4154296	SWBF0163-101821	MS	INITIAL	AgTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.000034	0.05	0.047	0.00016	0.0005	mg/L	94		70	130		
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	AlDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.029	2	1.9	0.008	0.02	mg/L	92		70	130		
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	AlDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	AlDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.029	2	2	0.008	0.02	mg/L	98	6	70	130	20	
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALYSIS	AlDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8		2	2	0.008	0.02	mg/L	102		85	115		
10584279	780549	SWBF0163-101821MSD	4157305	SWBF0163-101821	MSD	INITIAL	ALK_CaCO3	T	1	10/30/21	METHOD	10/30/21	SM 2320B	101	40	141	1.8	5	mg/L	99		80	120	20	
10584279	780549	SWBF0163-101821MS	4157304	SWBF0163-101821	MS	INITIAL	ALK_CaCO3	T	1	10/30/21	METHOD	10/30/21	SM 2320B	101	40	141	1.8	5	mg/L	100		80	120		
10584279	780549	4157301BLANK_10584279	4157301		MB	INITIAL	ALK_CaCO3	T	1	10/30/21	METHOD	10/30/21	SM 2320B			1.8	1.8	5	mg/L						
10584279	780549	4157302LCS_10584279	4157302		LCS	INITIAL	ALK_CaCO3	T	1	10/30/21	METHOD	10/30/21	SM 2320B		40	41.5	1.8	5	mg/L	104		90	110		
10584279	780549	4157303LCSD_10584279	4157303	157302LCS_1058427	LCSD	INITIAL	ALK_CaCO3	T	1	10/30/21	METHOD	10/30/21	SM 2320B		40	41.7	1.8	5	mg/L	104	1	90	110	20	
10584279	780047	4154294BLANK_10584279	4154294		MB	INITIAL	AlTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10584279	780047	SWBF0163-101821MSD	4154297	SWBF0163-101821	MSD	INITIAL	AlTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.051	2	2	0.008	0.02	mg/L	98	2	70	130	20	
10584279	780047	SWBF0163-101821MS	4154296	SWBF0163-101821	MS	INITIAL	AlTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.051	2	2	0.008	0.02	mg/L	96		70	130		
10584279	780047	4154295LCS_10584279	4154295		LCS	INITIAL	AlTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8		2	1.8	0.008	0.02	mg/L	92		85	115		
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	AsDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.0031	0.1	0.12	0.000083	0.0005	mg/L	114	6	70	130	20	
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	AsDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.0031	0.1	0.11	0.000083	0.0005	mg/L	107		70	130		
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	AsDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALYSIS	AsDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8		0.1	0.11	0.000083	0.0005	mg/L	107		85	115		
10584279	780047	SWBF0163-101821MSD	4154297	SWBF0163-101821	MSD	INITIAL	AsTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.0032	0.1	0.1	0.000083	0.0005	mg/L	101	1	70	130	20	
10584279	780047	4154295LCS_10584279	4154295		LCS	INITIAL	AsTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8		0.1	0.097	0.000083	0.0005	mg/L	97		85	115		
10584279	780047	4154294BLANK_10584279	4154294		MB	INITIAL	AsTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10584279	780047	SWBF0163-101821MS	4154296	SWBF0163-101821	MS	INITIAL	AsTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.0032	0.1	0.1	0.000083	0.0005	mg/L	101		70	130		
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALYSIS	CaDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8		2	2	0.018	0.04	mg/L	102		85	115		
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	CaDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	216	2	210	0.018	0.04	mg/L	0		70	130		
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	CaDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.018	0.018	0.04	mg/L						
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	CaDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	216	2	222	0.018	0.04	mg/L	320	5	70	130	20	
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALYSIS	CdDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8		0.1	0.11	0.000016	0.00008	mg/L	108		85	115		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	CdDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	CdDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.000073	0.1	0.093	0.000016	0.00008	mg/L	93		70	130		
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	CdDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.000073	0.1	0.1	0.000016	0.00008	mg/L	100	7	70	130	20	
10584279	780047	SWBF0163-101821MSD	4154297	SWBF0163-101821	MSD	INITIAL	CdTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.000092	0.1	0.094	0.000016	0.00008	mg/L	94		70	130	20	
10584279	780047	4154294BLANK_10584279	4154294		MB	INITIAL	CdTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10584279	780047	4154295LCS_10584279	4154295		LCS	INITIAL	CdTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8		0.1	0.1	0.000016	0.00008	mg/L	103		85	115		
10584279	780047	SWBF0163-101821MS	4154296	SWBF0163-101821	MS	INITIAL	CdTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.000092	0.1	0.093	0.000016	0.00008	mg/L	93		70	130		
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	CuDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.0031	0.1	0.093	0.0005	0.001	mg/L	90		70	130		
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	CuDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALYSIS	CuDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8		0.1	0.11	0.0005	0.001	mg/L	106		85	115		
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	CuDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.0031	0.1	0.1	0.0005	0.001	mg/L	98	7	70	130	20	
10584279	780047	4154295LCS_10584279	4154295		LCS	INITIAL	CuTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8		0.1	0.1	0.0005	0.001	mg/L	103		85	115		
10584279	780047	4154294BLANK_10584279	4154294		MB	INITIAL	CuTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10584279	780047	SWBF0163-101821MSD	4154297	SWBF0163-101821	MSD	INITIAL	CuTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.0046	0.1	0.097	0.0005	0.001	mg/L	93	1	70	130	20	
10584279	780047	SWBF0163-101821MS	4154296	SWBF0163-101821	MS	INITIAL	CuTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.0046	0.1	0.099	0.0005	0.001	mg/L	94		70	130		
10584279	752274	3011366BLANK_10584279	3011366		MB	INITIAL	DOC	D	1	10/27/21	METHOD	10/27/21	SM 5310C			0.3	0.3	1	mg/L						
10584279	752274	3011367LCS_10584279	3011367		LCS	INITIAL	DOC	D	1	10/27/21	METHOD	10/27/21	SM 5310C		5	4.3	0.3	1	mg/L	86		80	120		
10584279	752274	SWBF0163-101821MS	3011368	SWBF0163-101821	MS	INITIAL	DOC	D	1	10/27/21	METHOD	10/27/21	SM 5310C	2.9	5	7.4	0.3	1	mg/L	91		80	120		
10584279	752274	SWBF0163-101821DUP	3011369	SWBF0163-101821	LR	INITIAL	DOC	D	1	10/27/21	METHOD	10/27/21	SM 5310C	2.9		2.9	0.3	1	mg/L					25	
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	FeDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.012	2	2	0.012	0.05	mg/L	98	8	70	130	20	
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	FeDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.012	2	1.8	0.012	0.05	mg/L	91		70	130		
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALYSIS	FeDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8		2	2	0.012	0.05	mg/L	101		85	115		
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	FeDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10584279	780047	SWBF0163-101821MSD	4154297	SWBF0163-101821	MSD	INITIAL	FeTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.068	2	2	0.012	0.05	mg/L	96		70	130	20	
10584279	780047	4154295LCS_10584279	4154295		LCS	INITIAL	FeTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8		2	1.9	0.012	0.05	mg/L	97		85	115		
10584279	780047	SWBF0163-101821MS	4154296	SWBF0163-101821	MS	INITIAL	FeTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.068	2	2	0.012	0.05	mg/L	96		70	130		
10584279	780047	4154294BLANK_10584279	4154294		MB	INITIAL	FeTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10584279	779788	4152981BLANK_10584279	4152981		MB	INITIAL	HgDis	D	1	10/28/21	EPA 245.1	10/29/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10584279	779788	4152982LCS_10584279	4152982		LCS	INITIAL	HgDis	D	1	10/28/21	EPA 245.1	10/29/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	107		85	115		
10584279	779788	SWBF0163-101821MS	4152983	SWBF0163-101821	MS	INITIAL	HgDis	D	1	10/28/21	EPA 245.1	10/29/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	105		70	130		
10584279	779788	SWBF0163-101821MSD	4152984	SWBF0163-101821	MSD	INITIAL	HgDis	D	1	10/28/21	EPA 245.1	10/29/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	105		70	130	20	
10584279	779787	SWBF0163-101821MSD	4152980	SWBF0163-101821	MSD	INITIAL	HgTR	T	1	10/28/21	EPA 245.1	10/29/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	99	3	70	130	20	
10584279	779787	SWBF0163-101821MS	4152979	SWBF0163-101821	MS	INITIAL	HgTR	T	1	10/28/21	EPA 245.1	10/29/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	102		70	130		
10584279	779787	4152977BLANK_10584279	4152977		MB	INITIAL	HgTR	T	1	10/28/21	EPA 245.1	10/29/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10584279	779787	4152978LCS_10584279	4152978		LCS	INITIAL	HgTR	T	1	10/28/21	EPA 245.1	10/29/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	106		85	115		
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	MgDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.0034	0.0034	0.01	mg/L						
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	MgDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	10.6	2	12.1	0.0034	0.01	mg/L	79		70	130		
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	MgDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	10.6	2	12.6	0.0034	0.01	mg/L	103	4	70	130	20	
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALYSIS	MgDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8		2	2.1	0.0034	0.01	mg/L	106		85	115		
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	MoDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.32	0.1	0.46	0.000094	0.0005	mg/L	141	5	70	130	20	
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	MoDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALYSIS	MoDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8		0.1	0.11	0.000094	0.0005	mg/L	112		85	115		
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	MoDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.32	0.1	0.44	0.000094	0.0005	mg/L	118		70	130		
10584279	780047	SWBF0163-101821MSD	4154297	SWBF0163-101821	MSD	INITIAL	MoTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.31	0.1	0.39	0.000094	0.0005	mg/L	83	6	70	130	20	
10584279	780047	SWBF0163-101821MS	4154296	SWBF0163-101821	MS	INITIAL	MoTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.31	0.1	0.42	0.000094	0.0005	mg/L	107		70	130		
10584279	780047	4154295LCS_10584279	4154295		LCS	INITIAL	MoTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8		0.1	0.1	0.000094	0.0005	mg/L	101		85	115		
10584279	780047	4154294BLANK_10584279	4154294		MB	INITIAL	MoTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10584279	779085	SWBF0163-101821MSD	4149395	SWBF0163-101821	MSD	INITIAL	NH3-N	T	1	10/25/21	METHOD	10/25/21	EPA 350.1	0.0035	2.5	2.7	0.03	0.1	mg/L	108	3	90	110	20	
10584279	779085	4149390BLANK_10584279	4149390		MB	INITIAL	NH3-N	T	1	10/25/21	METHOD	10/25/21	EPA 350.1			0.033	0.03	0.1	mg/L						
10584279	779085	4149391LCS_10584279	4149391		LCS	INITIAL	NH3-N	T	1	10/25/21	METHOD	10/25/21	EPA 350.1		2.5	2.6	0.03	0.1	mg/L	106		90	110		
10584279	779085	SWBF0163-101821MS	4149394	SWBF0163-101821	MS	INITIAL	NH3-N	T	1	10/25/21	METHOD	10/25/21	EPA 350.1	0.0035	2.5	2.8	0.03	0.1	mg/L	111		90	110		
10584279	781568	SWBF0163-101821MS	4161949	SWBF0163-101821	MS	INITIAL	NO3/NO2-N	T	1	11/4/21	METHOD	11/4/21	SM 4500-NO3-H	0.9	2.5	3.4	0.078	0.2	mg/L	99		80	120		
10584279	781568	4161947BLANK_10584279	4161947		MB	INITIAL	NO3/NO2-N	T	1	11/4/21	METHOD	11/4/21	SM 4500-NO3-H			0.095	0.078	0.2	mg/L						
10584279	781568	4161948LCS_10584279	4161948		LCS	INITIAL	NO3/NO2-N	T	1	11/4/21	METHOD	11/4/21	SM 4500-NO3-H		2.5	2.4	0.078	0.2	mg/L	95		90	110		
10584279	781568	SWBF0164-101821MS	4161951	SWBF0164-101821	MS	INITIAL	NO3/NO2-N	T	1	11/4/21	METHOD	11/4/21	SM 4500-NO3-H	1.2	2.5	3.5	0.078	0.2	mg/L	90		80	120		
10584279	781568	SWBF0164-101821MSD	4161952	SWBF0164-101821	MSD	INITIAL	NO3/NO2-N	T	1	11/4/21	METHOD	11/4/21	SM 4500-NO3-H	1.2	2.5	3.7	0.078	0.2	mg/L	98	6	80	120	20	
10584279	781568	SWBF0163-101821MSD	4161950	SWBF0163-101821	MSD	INITIAL	NO3/NO2-N	T	1	11/4/21	METHOD	11/4/21	SM 4500-NO3-H	0.9	2.5	3.3	0.078	0.2	mg/L	97	2	80	120	20	
10584279	779906	SWBF0163-101821MS	4153682	SWBF0163-101821	MS	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F	0.035	2.5	2.4	0.05	0.1	mg/L	94		80	120		
10584279	779906	4153680BLANK_10584279	4153680		MB	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10584279	779906	4153681LCS_10584279	4153681		LCS	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F		2.5	2.3	0.05	0.1	mg/L	91		90	110		
10584279	779906	SWBF0163-101821MSD	4153683	SWBF0163-101821	MSD	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F	0.035	2.5	2.4	0.05	0.1	mg/L	93	1	80	120	20	
10584279	779906	SWBF0165-101821MS	4153684	SWBF0165-101821	MS	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F	0.004	2.5	2.4	0.05	0.1	mg/L	98		80	120		
10584279	779906	SWBF0165-101821MSD	4153685	SWBF0165-101821	MSD	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F	0.004	2.5	2.4	0.05	0.1	mg/L	97	1	80	120	20	
10584279	779907	SWBF0168-101821MS	4153690	SWBF0168-101821	MS	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F	0.062	2.5	2.4	0.05	0.1	mg/L	95		80	120		
10584279	779907	SWBF0168-101821MSD	4153691	SWBF0168-101821	MSD	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F	0.062	2.5	2.4	0.05	0.1	mg/L	94	2	80	120	20	

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10584279	779907	4153686BLANK_10584279	4153686		MB	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10584279	779907	4153687LCS_10584279	4153687		LCS	INITIAL	P	T	1	10/28/21	SM4500-P-B	11/3/21	SM 4500-P-F		2.5	2.4	0.05	0.1	mg/L	96		90	110		
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	PbDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.00012	0.1	0.1	0.000028	0.0001	mg/L	103	9	70	130	20	
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	PbDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALY2	PbDis	D	1	11/1/21	EPA 200.8	11/8/21	EPA 200.8		0.1	0.097	0.000028	0.0001	mg/L	97		85	115		
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	PbDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.00012	0.1	0.094	0.000028	0.0001	mg/L	94		70	130		
10584279	780047	SWBF0163-101821MS	4154296	SWBF0163-101821	MS	INITIAL	PbTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.00056	0.1	0.096	0.000028	0.0001	mg/L	95		70	130		
10584279	780047	4154295LCS_10584279	4154295		LCS	INITIAL	PbTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8		0.1	0.098	0.000028	0.0001	mg/L	98		85	115		
10584279	780047	4154294BLANK_10584279	4154294		MB	INITIAL	PbTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10584279	780047	SWBF0163-101821MSD	4154297	SWBF0163-101821	MSD	INITIAL	PbTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.00056	0.1	0.097	0.000028	0.0001	mg/L	96	1	70	130	20	
10584279	779897	4153620BLANK_10584279	4153620		MB	INITIAL	SO4	T	1	11/5/21	METHOD	11/5/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10584279	779897	4153621LCS_10584279	4153621		LCS	INITIAL	SO4	T	1	11/5/21	METHOD	11/5/21	ASTM D516-90-02		20	19	1.2	2.5	mg/L	95		80	120		
10584279	779897	4153622LCSD_10584279	4153622	153621LCS_1058427	LCSD	INITIAL	SO4	T	1	11/5/21	METHOD	11/5/21	ASTM D516-90-02		20	18	1.2	2.5	mg/L	90	5	80	120	20	
10584279	779897	SWBF0163-101821MSD	4153626	SWBF0163-101821	MSD	INITIAL	SO4	T	100	11/5/21	METHOD	11/5/21	ASTM D516-90-0	580	400	961	121	250	mg/L	95	2	80	120	30	
10584279	779897	SWBF0163-101821MS	4153625	SWBF0163-101821	MS	INITIAL	SO4	T	100	11/5/21	METHOD	11/5/21	ASTM D516-90-0	580	400	945	121	250	mg/L	91		80	120		
10584279	779048	4149209BLANK_10584279	4149209		MB	INITIAL	TDS	D	1	10/25/21	METHOD	10/25/21	SM 2540C			5	5	10	mg/L						
10584279	779048	4149210LCS_10584279	4149210		LCS	INITIAL	TDS	D	1	10/25/21	METHOD	10/25/21	SM 2540C		1000	1010	10	20	mg/L	101		80	120		
10584279	779048	SWBF0163-101821DUP	4149212	SWBF0163-101821	LR	INITIAL	TDS	D	1	10/25/21	METHOD	10/25/21	SM 2540C	1030		1030	5	10	mg/L					5	
10584279	752261	SWBF0163-101821MSD	3011448	SWBF0163-101821	MSD	INITIAL	TKN	T	1	10/27/21	METHOD	10/28/21	EPA 351.2	0.55	5	5.9	0.48	0.5	mg/L	107	1	90	110	10	
10584279	752261	3011314BLANK_10584279	3011314		MB	INITIAL	TKN	T	1	10/27/21	METHOD	10/28/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10584279	752261	3011315LCS_10584279	3011315		LCS	INITIAL	TKN	T	1	10/27/21	METHOD	10/28/21	EPA 351.2		5	5.3	0.48	0.5	mg/L	105		90	110		
10584279	752261	SWBF0163-101821DUP	3011446	SWBF0163-101821	LR	INITIAL	TKN	T	1	10/27/21	METHOD	10/28/21	EPA 351.2	0.55		0.61	0.48	0.5	mg/L		10			10	
10584279	752261	SWBF0163-101821MS	3011447	SWBF0163-101821	MS	INITIAL	TKN	T	1	10/27/21	METHOD	10/28/21	EPA 351.2	0.55	5	6	0.48	0.5	mg/L	108		90	110		
10584279	752262	3011319BLANK_10584279	3011319		MB	INITIAL	TKN	T	1	10/27/21	METHOD	10/28/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10584279	752262	3011320LCS_10584279	3011320		LCS	INITIAL	TKN	T	1	10/27/21	METHOD	10/28/21	EPA 351.2		5	5.2	0.48	0.5	mg/L	104		90	110		
10584279	752262	SWBF0168-101821MS	3011321	SWBF0168-101821	MS	INITIAL	TKN	T	1	10/27/21	METHOD	10/28/21	EPA 351.2	0.32	5	6	0.48	0.5	mg/L	113		90	110		
10584279	752262	SWBF0170-101821DUP	3011322	SWBF0170-101821	LR	INITIAL	TKN	T	1	10/27/21	METHOD	10/28/21	EPA 351.2	1.3		0.42	0.48	0.5	mg/L					10	
10584279	779044	4149191BLANK_10584279	4149191		MB	INITIAL	TSS	T	1	10/25/21	METHOD	10/25/21	SM 2540D			5	5	10	mg/L						
10584279	779044	4149192LCS_10584279	4149192		LCS	INITIAL	TSS	T	1	10/25/21	METHOD	10/25/21	SM 2540D		100	102	10	20	mg/L	102		80	120		
10584279	779044	SWBF0163-101821DUP	4149194	SWBF0163-101821	LR	INITIAL	TSS	T	1	10/25/21	METHOD	10/25/21	SM 2540D	3.6		5.6	5	10	mg/L					5	
10584279	779045	4149195BLANK_10584279	4149195		MB	INITIAL	TSS	T	1	10/25/21	METHOD	10/25/21	SM 2540D			5	5	10	mg/L						
10584279	779045	4149196LCS_10584279	4149196		LCS	INITIAL	TSS	T	1	10/25/21	METHOD	10/25/21	SM 2540D		100	96	10	20	mg/L	96		80	120		
10584279	779812	4153136LCS_10584279	4153136		LCS	REANALYSIS	ZnDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8		0.1	0.11	0.002	0.005	mg/L	106		85	115		
10584279	779812	4153135BLANK_10584279	4153135		MB	REANALYSIS	ZnDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10584279	779812	SWBF0163-101821MS	4153137	SWBF0163-101821	MS	REANALYSIS	ZnDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.042	0.1	0.13	0.002	0.005	mg/L	93		70	130		
10584279	779812	SWBF0163-101821MSD	4153138	SWBF0163-101821	MSD	REANALYSIS	ZnDis	D	1	11/1/21	EPA 200.8	11/4/21	EPA 200.8	0.042	0.1	0.14	0.002	0.005	mg/L	102	7	70	130	20	
10584279	780047	4154294BLANK_10584279	4154294		MB	INITIAL	ZnTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10584279	780047	4154295LCS_10584279	4154295		LCS	INITIAL	ZnTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8		0.1	0.1	0.002	0.005	mg/L	100		85	115		
10584279	780047	SWBF0163-101821MSD	4154297	SWBF0163-101821	MSD	INITIAL	ZnTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.043	0.1	0.13	0.002	0.005	mg/L	89	2	70	130	20	
10584279	780047	SWBF0163-101821MS	4154296	SWBF0163-101821	MS	INITIAL	ZnTR	T	1	11/1/21	EPA 200.8	11/3/21	EPA 200.8	0.043	0.1	0.13	0.002	0.005	mg/L	92		70	130		
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	AgDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.000072	0.05	0.055	0.00016	0.0005	mg/L	110	1	70	130	20	
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	AgDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.000072	0.05	0.055	0.00016	0.0005	mg/L	109		70	130		
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	AgDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	AgDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.05	0.062	0.00016	0.0005	mg/L	123		85	115		
10585797	782364	4165818LCS_10585797	4165818		LCS	INITIAL	AgTR	T	1	11/11/21	EPA 200.8	11/12/21	EPA 200.8		0.05	0.051	0.00016	0.0005	mg/L	103		85	115		
10585797	782364	4165817BLANK_10585797	4165817		MB	INITIAL	AgTR	T	1	11/11/21	EPA 200.8	11/12/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10585797	782364	SWBF0173-110121MSD	4165820	SWBF0173-110121	MSD	INITIAL	AgTR	T	1	11/11/21	EPA 200.8	11/12/21	EPA 200.8	0.00027	0.05	0.043	0.00016	0.0005	mg/L	85	1	70	130	20	
10585797	782364	SWBF0173-110121MS	4165819	SWBF0173-110121	MS	INITIAL	AgTR	T	1	11/11/21	EPA 200.8	11/12/21	EPA 200.8	0.00027	0.05	0.042	0.00016	0.0005	mg/L	84		70	130		
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	AlDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.027	2	2	0.008	0.02	mg/L	101		70	130		
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	AlDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.027	2	2.1	0.008	0.02	mg/L	102	1	70	130	20	
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	AlDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	AlDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		2	2	0.008	0.02	mg/L	102		85	115		
10585797	783417	SWBF0173-110121MS	4170863	SWBF0173-110121	MS	INITIAL	ALK_CaCO3	T	1	11/12/21	METHOD	11/12/21	SM 2320B	79.2	40	118	1.8	5	mg/L	97		80	120		
10585797	783417	SWBF0173-110121MSD	4170864	SWBF0173-110121	MSD	INITIAL	ALK_CaCO3	T	1	11/12/21	METHOD	11/12/21	SM 2320B	79.2	40	118	1.8	5	mg/L	98		80	120	20	
10585797	783417	4170860BLANK_10585797	4170860		MB	INITIAL	ALK_CaCO3	T	1	11/12/21	METHOD	11/12/21	SM 2320B			1.8	1.8	5	mg/L						
10585797	783417	4170861LCS_10585797	4170861		LCS	INITIAL	ALK_CaCO3	T	1	11/12/21	METHOD	11/12/21	SM 2320B		40	40.8	1.8	5	mg/L	102		90	110		
10585797	783417	4170862LCSD_10585797	4170862	170861LCS_1058579	LCSD	INITIAL	ALK_CaCO3	T	1	11/12/21	METHOD	11/12/21	SM 2320B		40	41.3	1.8	5	mg/L	103	1	90	110	20	
10585797	782364	4165818LCS_10585797	4165818		LCS	REANALYSIS	AlTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		2	2.1	0.008	0.02	mg/L	105		85	115		
10585797	782364	4165817BLANK_10585797	4165817		MB	REANALYSIS	AlTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10585797	782364	SWBF0173-110121MS	4165819	SWBF0173-110121	MS	REANALYSIS	AlTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.072	2	2.1	0.008	0.02	mg/L	102		70	130		
10585797	782364	SWBF0173-110121MSD	4165820	SWBF0173-110121	MSD	REANALYSIS	AlTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.072	2	2.2	0.008	0.02	mg/L	104	2	70	130	20	
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	AsDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.0027	0.1	0.11	0.000083	0.0005	mg/L	107	1	70	130	20	
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	AsDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.0027	0.1	0.11	0.000083	0.0005	mg/L	105		70	130		
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	AsDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	AsDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.1	0.000083	0.0005	mg/L	102		85	115		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10585797	782364	4165817BLANK_10585797	4165817		MB	REANALYSIS	AsTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10585797	782364	4165818LCS_10585797	4165818		LCS	REANALYSIS	AsTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.1	0.000083	0.0005	mg/L	102		85	115		
10585797	782364	SWBF0173-110121MS	4165819	SWBF0173-110121	MS	REANALYSIS	AsTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.0031	0.1	0.11	0.000083	0.0005	mg/L	106		70	130		
10585797	782364	SWBF0173-110121MSD	4165820	SWBF0173-110121	MSD	REANALYSIS	AsTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.0031	0.1	0.11	0.000083	0.0005	mg/L	108	2	70	130	20	
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	DILUTION	CaDis	D	10	11/11/21	EPA 200.8	11/16/21	EPA 200.8	227	2	220	0.18	0.4	mg/L	0	2	70	130	20	
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	DILUTION	CaDis	D	10	11/11/21	EPA 200.8	11/16/21	EPA 200.8	227	2	216	0.18	0.4	mg/L	0		70	130		
10585797	782363	4165811BLANK_10585797	4165811		MB	REANALYSIS	CaDis	D	1	11/11/21	EPA 200.8	11/16/21	EPA 200.8			0.018	0.018	0.04	mg/L						
10585797	782363	4165812LCS_10585797	4165812		LCS	REANALYSIS	CaDis	D	1	11/11/21	EPA 200.8	11/16/21	EPA 200.8		2	2	0.018	0.04	mg/L	98		85	115		
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	CdDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.11	0.000016	0.00008	mg/L	105		85	115		
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	CdDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.000032	0.000016	0.00008	mg/L						
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	CdDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.000095	0.1	0.096	0.000016	0.00008	mg/L	96		70	130		
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	CdDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.000095	0.1	0.098	0.000016	0.00008	mg/L	98	2	70	130	20	
10585797	782364	SWBF0173-110121MSD	4165820	SWBF0173-110121	MSD	REANALYSIS	CdTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.00011	0.1	0.1	0.000016	0.00008	mg/L	100	4	70	130	20	
10585797	782364	4165818LCS_10585797	4165818		LCS	REANALYSIS	CdTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.11	0.000016	0.00008	mg/L	107		85	115		
10585797	782364	4165817BLANK_10585797	4165817		MB	REANALYSIS	CdTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10585797	782364	SWBF0173-110121MS	4165819	SWBF0173-110121	MS	REANALYSIS	CdTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.00011	0.1	0.096	0.000016	0.00008	mg/L	96		70	130		
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	CuDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.0022	0.1	0.1	0.0005	0.001	mg/L	98	1	70	130	20	
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	CuDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.0022	0.1	0.1	0.0005	0.001	mg/L	97		70	130		
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	CuDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	CuDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.1	0.0005	0.001	mg/L	104		85	115		
10585797	782364	4165817BLANK_10585797	4165817		MB	REANALYSIS	CuTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10585797	782364	4165818LCS_10585797	4165818		LCS	REANALYSIS	CuTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.1	0.0005	0.001	mg/L	103		85	115		
10585797	782364	SWBF0173-110121MS	4165819	SWBF0173-110121	MS	REANALYSIS	CuTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.0048	0.1	0.1	0.0005	0.001	mg/L	97		70	130		
10585797	782364	SWBF0173-110121MSD	4165820	SWBF0173-110121	MSD	REANALYSIS	CuTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.0048	0.1	0.1	0.0005	0.001	mg/L	99	2	70	130	20	
10585797	756224	SWBF0173-110121MS	3026276	SWBF0173-110121	MS	INITIAL	DOC	D	1	11/15/21	METHOD	11/15/21	SM 5310C	2.1	5	6.9	0.3	1	mg/L	95		80	120		
10585797	756224	SWBF0173-110121DUP	3026275	SWBF0173-110121	LR	INITIAL	DOC	D	1	11/15/21	METHOD	11/15/21	SM 5310C	2.1		2.1	0.3	1	mg/L					25	
10585797	756224	3026273BLANK_10585797	3026273		MB	INITIAL	DOC	D	1	11/15/21	METHOD	11/15/21	SM 5310C			0.3	0.3	1	mg/L						
10585797	756224	3026274LCS_10585797	3026274		LCS	INITIAL	DOC	D	1	11/15/21	METHOD	11/15/21	SM 5310C		5	5.2	0.3	1	mg/L	104		80	120		
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	FeDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.013	2	2.1	0.012	0.05	mg/L	104	1	70	130	20	
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	FeDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		2	2	0.012	0.05	mg/L	101		85	115		
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	FeDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	FeDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.013	2	2.1	0.012	0.05	mg/L	103		70	130		
10585797	782364	SWBF0173-110121MS	4165819	SWBF0173-110121	MS	REANALYSIS	FeTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.11	2	2.2	0.012	0.05	mg/L	103		70	130		
10585797	782364	SWBF0173-110121MSD	4165820	SWBF0173-110121	MSD	REANALYSIS	FeTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.11	2	2.2	0.012	0.05	mg/L	105	2	70	130	20	
10585797	782364	4165817BLANK_10585797	4165817		MB	REANALYSIS	FeTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10585797	782364	4165818LCS_10585797	4165818		LCS	REANALYSIS	FeTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		2	2	0.012	0.05	mg/L	102		85	115		
10585797	782197	4165184BLANK_10585797	4165184		MB	INITIAL	HgDis	D	1	11/9/21	EPA 245.1	11/10/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10585797	782197	4165185LCS_10585797	4165185		LCS	INITIAL	HgDis	D	1	11/9/21	EPA 245.1	11/10/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	108		85	115		
10585797	782197	SWBF0173-110121MSD	4165187	SWBF0173-110121	MSD	INITIAL	HgDis	D	1	11/9/21	EPA 245.1	11/10/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	106	1	70	130	20	
10585797	782197	SWBF0173-110121MS	4165186	SWBF0173-110121	MS	INITIAL	HgDis	D	1	11/9/21	EPA 245.1	11/10/21	EPA 245.1		0.0001	0.00011	0.0000047	0.00001	mg/L	105		70	130		
10585797	782195	SWBF0173-110121MS	4165178	SWBF0173-110121	MS	INITIAL	HgTR	T	1	11/9/21	EPA 245.1	11/10/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	102		70	130		
10585797	782195	SWBF0173-110121MSD	4165179	SWBF0173-110121	MSD	INITIAL	HgTR	T	1	11/9/21	EPA 245.1	11/10/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	102		70	130	20	
10585797	782195	4165176BLANK_10585797	4165176		MB	INITIAL	HgTR	T	1	11/9/21	EPA 245.1	11/10/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10585797	782195	4165177LCS_10585797	4165177		LCS	INITIAL	HgTR	T	1	11/9/21	EPA 245.1	11/10/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	105		85	115		
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	MgDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		2	2	0.0034	0.01	mg/L	100		85	115		
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	MgDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.0034	0.0034	0.01	mg/L						
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	MgDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	9	2	10.9	0.0034	0.01	mg/L	96		70	130		
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	MgDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	9	2	10.6	0.0034	0.01	mg/L	84	2	70	130	20	
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	MoDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.34	0.1	0.44	0.000094	0.0005	mg/L	103		70	130		
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	MoDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.34	0.1	0.45	0.000094	0.0005	mg/L	111	2	70	130	20	
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	MoDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	MoDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.11	0.000094	0.0005	mg/L	105		85	115		
10585797	782364	4165817BLANK_10585797	4165817		MB	REANALYSIS	MoTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10585797	782364	4165818LCS_10585797	4165818		LCS	REANALYSIS	MoTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.11	0.000094	0.0005	mg/L	108		85	115		
10585797	782364	SWBF0173-110121MSD	4165820	SWBF0173-110121	MSD	REANALYSIS	MoTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.36	0.1	0.46	0.000094	0.0005	mg/L	101	6	70	130	20	
10585797	782364	SWBF0173-110121MS	4165819	SWBF0173-110121	MS	REANALYSIS	MoTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.36	0.1	0.44	0.000094	0.0005	mg/L	74		70	130		
10585797	782663	4167006BLANK_10585797	4167006		MB	INITIAL	NH3-N	T	1	11/10/21	METHOD	11/10/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10585797	782663	4167007LCS_10585797	4167007		LCS	INITIAL	NH3-N	T	1	11/10/21	METHOD	11/10/21	EPA 350.1		2.5	2.6	0.03	0.1	mg/L	104		90	110		
10585797	782663	SWBF0173-110121MS	4167008	SWBF0173-110121	MS	INITIAL	NH3-N	T	1	11/10/21	METHOD	11/10/21	EPA 350.1	0.03	2.5	2.5	0.03	0.1	mg/L	100		90	110		
10585797	782663	SWBF0173-110121MSD	4167009	SWBF0173-110121	MSD	INITIAL	NH3-N	T	1	11/10/21	METHOD	11/10/21	EPA 350.1	0.03	2.5	2.6	0.03	0.1	mg/L	101	1	90	110	20	
10585797	783048	4168836BLANK_10585797	4168836		MB	INITIAL	NO3/NO2-N	T	1	11/12/21	METHOD	11/12/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10585797	783048	4168837LCS_10585797	4168837		LCS	INITIAL	NO3/NO2-N	T	1	11/12/21	METHOD	11/12/21	SM 4500-NO3-H		2.5	2.7	0.078	0.2	mg/L	108		90	110		
10585797	783048	SWBF0173-110121MSD	4168841	SWBF0173-110121	MSD	INITIAL	NO3/NO2-N	T	1	11/12/21	METHOD	11/12/21	SM 4500-NO3-H	0.97	2.5	2.9	0.078	0.2	mg/L	77	9	80	120	20	
10585797	783048	SWBF0173-110121MS	4168840	SWBF0173-110121	MS	INITIAL	NO3/NO2-N	T	1	11/12/21	METHOD	11/12/21	SM 4500-NO3-H	0.97	2.5	3.2	0.078	0.2	mg/L	89		80	120		
10585797	783578	SWBF0173-110121MS	4172244	SWBF0173-110121	MS	INITIAL	P	T	1	11/14/21	SM4500-P-B	11/15/21	SM 4500-P-F	0.068	2.5	2.3	0.05	0.1	mg/L	91		80	120		

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10585797	783578	SWBF0173-110121MSD	4172245	SWBF0173-110121	MSD	INITIAL	P	T	1	11/14/21	SM4500-P-B	11/15/21	SM 4500-P-F	0.068	3.1	2.9	0.062	0.12	mg/L	92	23	80	120	20	50 mL of sample used for MS. Due to limited sample volume 40 mL used for MSD. MS and MSD concentrations differed so RPD for
10585797	783578	4172242BLANK_10585797	4172242		MB	INITIAL	P	T	1	11/14/21	SM4500-P-B	11/15/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10585797	783578	4172243LCS_10585797	4172243		LCS	INITIAL	P	T	1	11/14/21	SM4500-P-B	11/15/21	SM 4500-P-F		2.5	2.3	0.05	0.1	mg/L	92		90	110		
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	PbDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.000092	0.1	0.1	0.000028	0.0001	mg/L	100	3	70	130	20	
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	PbDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.000092	0.1	0.097	0.000028	0.0001	mg/L	97		70	130		
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	PbDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.000033	0.000028	0.0001	mg/L						
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	PbDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.1	0.000028	0.0001	mg/L	100		85	115		
10585797	782364	4165817BLANK_10585797	4165817		MB	REANALYSIS	PbTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10585797	782364	4165818LCS_10585797	4165818		LCS	REANALYSIS	PbTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.1	0.000028	0.0001	mg/L	101		85	115		
10585797	782364	SWBF0173-110121MSD	4165820	SWBF0173-110121	MSD	REANALYSIS	PbTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.00086	0.1	0.097	0.000028	0.0001	mg/L	96	1	70	130	20	
10585797	782364	SWBF0173-110121MS	4165819	SWBF0173-110121	MS	REANALYSIS	PbTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.00086	0.1	0.095	0.000028	0.0001	mg/L	94		70	130		
10585797	782782	SWBF0174-110121MS	4167608	SWBF0174-110121	MS	INITIAL	SO4	T	25	11/10/21	METHOD	11/10/21	ASTM D516-90-0	726	20	671	30.2	62.5	mg/L	0		80	120		
10585797	782782	SWBF0174-110121MSD	4167609	SWBF0174-110121	MSD	INITIAL	SO4	T	25	11/10/21	METHOD	11/10/21	ASTM D516-90-0	726	20	665	30.2	62.5	mg/L	0	1	80	120	30	
10585797	782782	SWBF0173-110121MSD	4167607	SWBF0173-110121	MSD	INITIAL	SO4	T	25	11/10/21	METHOD	11/10/21	ASTM D516-90-0	558	20	582	30.2	62.5	mg/L	116	7	80	120	30	
10585797	782782	4167603BLANK_10585797	4167603		MB	INITIAL	SO4	T	1	11/10/21	METHOD	11/10/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10585797	782782	4167604LCS_10585797	4167604		LCS	INITIAL	SO4	T	1	11/10/21	METHOD	11/10/21	ASTM D516-90-02		20	18	1.2	2.5	mg/L	90		80	120		
10585797	782782	4167605LCSD_10585797	4167605	167604LCS_1058579	LCSD	INITIAL	SO4	T	1	11/10/21	METHOD	11/10/21	ASTM D516-90-02		20	18.3	1.2	2.5	mg/L	91	2	80	120	20	
10585797	782782	SWBF0173-110121MS	4167606	SWBF0173-110121	MS	INITIAL	SO4	T	25	11/10/21	METHOD	11/10/21	ASTM D516-90-0	558	20	544	30.2	62.5	mg/L	0		80	120		
10585797	781934	4163963BLANK_10585797	4163963		MB	INITIAL	TDS	D	1	11/8/21	METHOD	11/8/21	SM 2540C			5	5	10	mg/L						
10585797	781934	4163964LCS_10585797	4163964		LCS	INITIAL	TDS	D	1	11/8/21	METHOD	11/8/21	SM 2540C		1000	1020	10	20	mg/L	102		80	120		
10585797	781934	SWBF0173-110121DUP	4163965	SWBF0173-110121	LR	INITIAL	TDS	D	1	11/8/21	METHOD	11/8/21	SM 2540C	1030		1020	5	10	mg/L		1			5	
10585797	755862	SWBF0173-110121MS	3024698	SWBF0173-110121	MS	INITIAL	TKN	T	1	11/12/21	METHOD	11/15/21	EPA 351.2	0.32	5	5.7	0.48	0.5	mg/L	107		90	110		
10585797	755862	SWBF0173-110121MSD	3024701	SWBF0173-110121	MSD	INITIAL	TKN	T	1	11/12/21	METHOD	11/15/21	EPA 351.2	0.32	5	5.6	0.48	0.5	mg/L	106	1	90	110	10	
10585797	755862	3024696BLANK_10585797	3024696		MB	INITIAL	TKN	T	1	11/12/21	METHOD	11/15/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10585797	755862	3024697LCS_10585797	3024697		LCS	INITIAL	TKN	T	1	11/12/21	METHOD	11/15/21	EPA 351.2		5	5.2	0.48	0.5	mg/L	104		90	110		
10585797	755862	SWBF0173-110121DUP	3024700	SWBF0173-110121	LR	INITIAL	TKN	T	1	11/12/21	METHOD	11/15/21	EPA 351.2	0.32		0.3	0.48	0.5	mg/L					10	
10585797	781936	4163970BLANK_10585797	4163970		MB	INITIAL	TSS	T	1	11/8/21	METHOD	11/8/21	SM 2540D			5	5	10	mg/L						
10585797	781936	4163971LCS_10585797	4163971		LCS	INITIAL	TSS	T	1	11/8/21	METHOD	11/8/21	SM 2540D		100	112	10	20	mg/L	112		80	120		
10585797	781936	SWBF0173-110121DUP	4163972	SWBF0173-110121	LR	INITIAL	TSS	T	1	11/8/21	METHOD	11/8/21	SM 2540D	2.3		2.8	5	10	mg/L					5	
10585797	782363	SWBF0173-110121MS	4165813	SWBF0173-110121	MS	INITIAL	ZnDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.027	0.1	0.12	0.002	0.005	mg/L	94		70	130		
10585797	782363	4165812LCS_10585797	4165812		LCS	INITIAL	ZnDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.1	0.002	0.005	mg/L	104		85	115		
10585797	782363	4165811BLANK_10585797	4165811		MB	INITIAL	ZnDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10585797	782363	SWBF0173-110121MSD	4165814	SWBF0173-110121	MSD	INITIAL	ZnDis	D	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.027	0.1	0.12	0.002	0.005	mg/L	95	1	70	130	20	
10585797	782364	SWBF0173-110121MSD	4165820	SWBF0173-110121	MSD	REANALYSIS	ZnTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.032	0.1	0.13	0.002	0.005	mg/L	96	2	70	130	20	
10585797	782364	4165818LCS_10585797	4165818		LCS	REANALYSIS	ZnTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8		0.1	0.11	0.002	0.005	mg/L	106		85	115		
10585797	782364	4165817BLANK_10585797	4165817		MB	REANALYSIS	ZnTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10585797	782364	SWBF0173-110121MS	4165819	SWBF0173-110121	MS	REANALYSIS	ZnTR	T	1	11/11/21	EPA 200.8	11/15/21	EPA 200.8	0.032	0.1	0.13	0.002	0.005	mg/L	93		70	130		
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	AgDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.000052	0.05	0.047	0.00016	0.0005	mg/L	94		70	130		
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	AgDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.000052	0.05	0.048	0.00016	0.0005	mg/L	96	2	70	130	20	
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	AgDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	AgDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		0.05	0.052	0.00016	0.0005	mg/L	104		85	115		
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	AgDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	AgDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.05	0.052	0.00016	0.0005	mg/L	104		85	115		
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	AgDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.000062	0.05	0.052	0.00016	0.0005	mg/L	103	4	70	130	20	
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	AgDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.000062	0.05	0.054	0.00016	0.0005	mg/L	108		70	130		
10590953	788624	4197938BLANK_10590953	4197938		MB	INITIAL	AgTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8			0.00016	0.00016	0.0005	mg/L						
10590953	788624	4197939LCS_10590953	4197939		LCS	INITIAL	AgTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8		0.05	0.049	0.00016	0.0005	mg/L	97		85	115		
10590953	788624	SWBF0183-120821MS	4197940	SWBF0183-120821	MS	INITIAL	AgTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.00007	0.05	0.05	0.00016	0.0005	mg/L	99		70	130		
10590953	788624	SWBF0183-120821MSD	4197941	SWBF0183-120821	MSD	INITIAL	AgTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.00007	0.05	0.047	0.00016	0.0005	mg/L	93	6	70	130	20	
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	AlDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	AlDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.02	2	2.1	0.008	0.02	mg/L	102		70	130	20	
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	AlDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		2	2.2	0.008	0.02	mg/L	110		85	115		
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	AlDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.02	2	2.1	0.008	0.02	mg/L	102		70	130		
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	AlDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.003	2	2.1	0.008	0.02	mg/L	103		70	130		
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	AlDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	AlDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.003	2	2	0.008	0.02	mg/L	100	4	70	130	20	
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	AlDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		2	2	0.008	0.02	mg/L	101		85	115		
10590953	790407	SWBF0183-120821MS	4206375	SWBF0183-120821	MS	INITIAL	ALK_CaCO3	T	1	12/21/21	METHOD	12/21/21	SM 2320B	75.6	40	115	1.8	5	mg/L	100		80	120		
10590953	790407	SWBF0183-120821MSD	4206376	SWBF0183-120821	MSD	INITIAL	ALK_CaCO3	T	1	12/21/21	METHOD	12/21/21	SM 2320B	75.6	40	116	1.8	5	mg/L	101		80	120	20	
10590953	790407	4206370BLANK_10590953	4206370		MB	INITIAL	ALK_CaCO3	T	1	12/21/21	METHOD	12/21/21	SM 2320B			1.8	1.8	5	mg/L						

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10590953	790407	4206371LCS_10590953	4206371		LCS	INITIAL	ALK_CaCO3	T	1	12/21/21	METHOD	12/21/21	SM 2320B		40	42	1.8	5	mg/L	105		90	110		
10590953	790407	4206372LCSD_10590953	4206372	206371LCS_1059095	LCSD	INITIAL	ALK_CaCO3	T	1	12/21/21	METHOD	12/21/21	SM 2320B		40	42	1.8	5	mg/L	105		90	110	20	
10590953	788624	4197938BLANK_10590953	4197938		MB	INITIAL	AlTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8			0.008	0.008	0.02	mg/L						
10590953	788624	SWBF0183-120821MSD	4197941	SWBF0183-120821	MSD	INITIAL	AlTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.1	2	2.1	0.008	0.02	mg/L	102	7	70	130	20	
10590953	788624	SWBF0183-120821MS	4197940	SWBF0183-120821	MS	INITIAL	AlTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.1	2	2.3	0.008	0.02	mg/L	109		70	130		
10590953	788624	4197939LCS_10590953	4197939		LCS	INITIAL	AlTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8		2	2	0.008	0.02	mg/L	102		85	115		
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	AsDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.002	0.1	0.1	0.000083	0.0005	mg/L	100	1	70	130	20	
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	AsDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	AsDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.1	0.000083	0.0005	mg/L	101		85	115		
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	AsDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.002	0.1	0.1	0.000083	0.0005	mg/L	99		70	130		
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	AsDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.000083	0.0005	mg/L	104		70	130		
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	AsDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.000083	0.0005	mg/L	100	4	70	130	20	
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	AsDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	AsDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.000083	0.0005	mg/L	101		85	115		
10590953	788624	SWBF0183-120821MS	4197940	SWBF0183-120821	MS	INITIAL	AsTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.0024	0.1	0.11	0.000083	0.0005	mg/L	112		70	130		
10590953	788624	4197938BLANK_10590953	4197938		MB	INITIAL	AsTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8			0.000083	0.000083	0.0005	mg/L						
10590953	788624	4197939LCS_10590953	4197939		LCS	INITIAL	AsTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.1	0.000083	0.0005	mg/L	102		85	115		
10590953	788624	SWBF0183-120821MSD	4197941	SWBF0183-120821	MSD	INITIAL	AsTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.0024	0.1	0.1	0.000083	0.0005	mg/L	102	9	70	130	20	
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	CaDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	208	2	220	0.018	0.04	mg/L	601		70	130		
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	CaDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	208	2	219	0.018	0.04	mg/L	558		70	130	20	
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	CaDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.018	0.018	0.04	mg/L						
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	CaDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		2	2.1	0.018	0.04	mg/L	106		85	115		
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	CaDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.016	2	2.1	0.018	0.04	mg/L	103	3	70	130	20	
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	CaDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.016	2	2.1	0.018	0.04	mg/L	106		70	130		
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	CaDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.018	0.018	0.04	mg/L						
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	CaDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		2	2.1	0.018	0.04	mg/L	104		85	115		
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	CdDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.000054	0.1	0.096	0.000016	0.00008	mg/L	96	1	70	130	20	
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	CdDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.000054	0.1	0.096	0.000016	0.00008	mg/L	95		70	130		
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	CdDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.1	0.000016	0.00008	mg/L	102		85	115		
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	CdDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.000034	0.000016	0.00008	mg/L						
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	CdDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.000016	0.00008	mg/L	100		85	115		
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	CdDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	CdDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.000016	0.00008	mg/L	100	5	70	130	20	
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	CdDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.000016	0.00008	mg/L	104		70	130		
10590953	788624	SWBF0183-120821MSD	4197941	SWBF0183-120821	MSD	INITIAL	CdTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.00008	0.1	0.1	0.000016	0.00008	mg/L	101	8	70	130	20	
10590953	788624	4197939LCS_10590953	4197939		LCS	INITIAL	CdTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.1	0.000016	0.00008	mg/L	103		85	115		
10590953	788624	4197938BLANK_10590953	4197938		MB	INITIAL	CdTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8			0.000016	0.000016	0.00008	mg/L						
10590953	788624	SWBF0183-120821MS	4197940	SWBF0183-120821	MS	INITIAL	CdTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.00008	0.1	0.11	0.000016	0.00008	mg/L	108		70	130		
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	CuDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.0022	0.1	0.1	0.0005	0.001	mg/L	99		70	130		
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	CuDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	CuDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.11	0.0005	0.001	mg/L	106		85	115		
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	CuDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.0022	0.1	0.1	0.0005	0.001	mg/L	101	1	70	130	20	
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	CuDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.00013	0.1	0.11	0.0005	0.001	mg/L	106		70	130		
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	CuDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.00013	0.1	0.1	0.0005	0.001	mg/L	102	4	70	130	20	
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	CuDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	CuDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.0005	0.001	mg/L	103		85	115		
10590953	788624	4197939LCS_10590953	4197939		LCS	INITIAL	CuTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.11	0.0005	0.001	mg/L	107		85	115		
10590953	788624	4197938BLANK_10590953	4197938		MB	INITIAL	CuTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8			0.0005	0.0005	0.001	mg/L						
10590953	788624	SWBF0183-120821MS	4197940	SWBF0183-120821	MS	INITIAL	CuTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.0062	0.1	0.12	0.0005	0.001	mg/L	112		70	130		
10590953	788624	SWBF0183-120821MSD	4197941	SWBF0183-120821	MSD	INITIAL	CuTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.0062	0.1	0.11	0.0005	0.001	mg/L	104	7	70	130	20	
10590953	762095	SWBF0183-120821DUP	3049090	SWBF0183-120821	LR	INITIAL	DOC	D	1	12/16/21	METHOD	12/16/21	SM 5310C	1.8		1.9	0.3	1	mg/L		4			25	
10590953	762095	SWBF0183-120821MS	3049089	SWBF0183-120821	MS	INITIAL	DOC	D	1	12/16/21	METHOD	12/16/21	SM 5310C	1.8	5	7.1	0.3	1	mg/L	104		80	120		
10590953	762095	3049087BLANK_10590953	3049087		MB	INITIAL	DOC	D	1	12/16/21	METHOD	12/16/21	SM 5310C			0.3	0.3	1	mg/L						
10590953	762095	3049088LCS_10590953	3049088		LCS	INITIAL	DOC	D	1	12/16/21	METHOD	12/16/21	SM 5310C		5	4.5	0.3	1	mg/L	90		80	120		
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	FeDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.019	2	2	0.012	0.05	mg/L	99	1	70	130	20	
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	FeDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	FeDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.019	2	2	0.012	0.05	mg/L	99		70	130		
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	FeDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	106		85	115		
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	FeDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	FeDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.0067	2	2	0.012	0.05	mg/L	102	4	70	130	20	
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	FeDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.0067	2	2.1	0.012	0.05	mg/L	106		70	130		
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	FeDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	103		85	115		
10590953	788624	4197939LCS_10590953	4197939		LCS	INITIAL	FeTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8		2	2.1	0.012	0.05	mg/L	107		85	115		
10590953	788624	4197938BLANK_10590953	4197938		MB	REANALYSIS	FeTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8			0.012	0.012	0.05	mg/L						
10590953	788624	SWBF0183-120821MSD	4197941	SWBF0183-120821	MSD	INITIAL	FeTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.18	2	2.3	0.012	0.05	mg/L	104	7	70	130	20	

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10590953	788624	SWBF0183-120821MS	4197940	SWBF0183-120821	MS	INITIAL	FeTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.18	2	2.4	0.012	0.05	mg/L	113		70	130		
10590953	789316	4201005BLANK_10590953	4201005		MB	INITIAL	HgDis	D	1	12/16/21	EPA 245.1	12/19/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10590953	789316	4201006LCS_10590953	4201006		LCS	INITIAL	HgDis	D	1	12/16/21	EPA 245.1	12/19/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	103		85	115		
10590953	789316	SWBF0183-120821MSD	4201008	SWBF0183-120821	MSD	INITIAL	HgDis	D	1	12/16/21	EPA 245.1	12/19/21	EPA 245.1		0.0001	0.000099	0.0000047	0.00001	mg/L	99	3	70	130	20	
10590953	789316	SWBF0183-120821MS	4201007	SWBF0183-120821	MS	INITIAL	HgDis	D	1	12/16/21	EPA 245.1	12/19/21	EPA 245.1		0.0001	0.0001	0.0000047	0.00001	mg/L	102		70	130		
10590953	788884	SWBF0183-120821MS	4198863	SWBF0183-120821	MS	INITIAL	HgTR	T	1	12/14/21	EPA 245.1	12/15/21	EPA 245.1		0.0001	0.000096	0.0000047	0.00001	mg/L	94		70	130		
10590953	788884	SWBF0183-120821MSD	4198864	SWBF0183-120821	MSD	INITIAL	HgTR	T	1	12/14/21	EPA 245.1	12/15/21	EPA 245.1		0.0001	0.000093	0.0000047	0.00001	mg/L	91	3	70	130	20	
10590953	788884	4198861BLANK_10590953	4198861		MB	INITIAL	HgTR	T	1	12/14/21	EPA 245.1	12/15/21	EPA 245.1			0.0000047	0.0000047	0.00001	mg/L						
10590953	788884	4198862LCS_10590953	4198862		LCS	INITIAL	HgTR	T	1	12/14/21	EPA 245.1	12/15/21	EPA 245.1		0.0001	0.000099	0.0000047	0.00001	mg/L	99		85	115		
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	MgDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	10.4	2	12	0.0034	0.01	mg/L	82		70	130	20	
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	MgDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.0034	0.0034	0.01	mg/L						
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	MgDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		2	2.2	0.0034	0.01	mg/L	109		85	115		
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	MgDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	10.4	2	12.1	0.0034	0.01	mg/L	84		70	130		
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	MgDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		2	2	0.0034	0.01	mg/L	101		85	115		
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	MgDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.0021	2	2	0.0034	0.01	mg/L	100	4	70	130	20	
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	MgDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.0021	2	2.1	0.0034	0.01	mg/L	104		70	130		
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	MgDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.0034	0.0034	0.01	mg/L						
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	MoDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.1	0.000094	0.0005	mg/L	102		85	115		
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	MoDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	MoDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.3	0.1	0.4	0.000094	0.0005	mg/L	97		70	130	20	
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	MoDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.3	0.1	0.4	0.000094	0.0005	mg/L	98		70	130		
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	MoDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	MoDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.000094	0.0005	mg/L	100		85	115		
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	MoDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.000019	0.1	0.1	0.000094	0.0005	mg/L	103		70	130		
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	MoDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.000019	0.1	0.099	0.000094	0.0005	mg/L	99	4	70	130	20	
10590953	788624	SWBF0183-120821MSD	4197941	SWBF0183-120821	MSD	INITIAL	MoTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.31	0.1	0.42	0.000094	0.0005	mg/L	101	7	70	130	20	
10590953	788624	4197939LCS_10590953	4197939		LCS	INITIAL	MoTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.1	0.000094	0.0005	mg/L	102		85	115		
10590953	788624	4197938BLANK_10590953	4197938		MB	INITIAL	MoTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8			0.000094	0.000094	0.0005	mg/L						
10590953	788624	SWBF0183-120821MS	4197940	SWBF0183-120821	MS	INITIAL	MoTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.31	0.1	0.45	0.000094	0.0005	mg/L	131		70	130		
10590953	788694	SWBF0183-120821MSD	4198130	SWBF0183-120821	MSD	INITIAL	NH3-N	T	1	12/12/21	METHOD	12/12/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	100	3	90	110	20	
10590953	788694	SWBF0183-120821MS	4198129	SWBF0183-120821	MS	INITIAL	NH3-N	T	1	12/12/21	METHOD	12/12/21	EPA 350.1		2.5	2.6	0.03	0.1	mg/L	104		90	110		
10590953	788694	4198125BLANK_10590953	4198125		MB	INITIAL	NH3-N	T	1	12/12/21	METHOD	12/12/21	EPA 350.1			0.03	0.03	0.1	mg/L						
10590953	788694	4198126LCS_10590953	4198126		LCS	INITIAL	NH3-N	T	1	12/12/21	METHOD	12/12/21	EPA 350.1		2.5	2.5	0.03	0.1	mg/L	98		90	110		
10590953	790585	4207524BLANK_10590953	4207524		MB	INITIAL	NO3/NO2-N	T	1	12/22/21	METHOD	12/22/21	SM 4500-NO3-H			0.078	0.078	0.2	mg/L						
10590953	790585	4207525LCS_10590953	4207525		LCS	INITIAL	NO3/NO2-N	T	1	12/22/21	METHOD	12/22/21	SM 4500-NO3-H		2.5	2.5	0.078	0.2	mg/L	101		90	110		
10590953	790585	SWBF0183-120821MS	4207526	SWBF0183-120821	MS	INITIAL	NO3/NO2-N	T	1	12/22/21	METHOD	12/22/21	SM 4500-NO3-H	1	2.5	3.3	0.078	0.2	mg/L	91		80	120		
10590953	790585	SWBF0183-120821MSD	4207527	SWBF0183-120821	MSD	INITIAL	NO3/NO2-N	T	1	12/22/21	METHOD	12/22/21	SM 4500-NO3-H	1	2.5	2.8	0.078	0.2	mg/L	72	16	80	120	20	
10590953	790585	SWBF0184-120821MS	4207528	SWBF0184-120821	MS	INITIAL	NO3/NO2-N	T	1	12/22/21	METHOD	12/22/21	SM 4500-NO3-H	1.2	2.5	3.5	0.078	0.2	mg/L	91		80	120		
10590953	790585	SWBF0184-120821MSD	4207529	SWBF0184-120821	MSD	INITIAL	NO3/NO2-N	T	1	12/22/21	METHOD	12/22/21	SM 4500-NO3-H	1.2	2.5	3.5	0.078	0.2	mg/L	94	2	80	120	20	
10590953	790000	SWBF0183-120821MSD	4204935	SWBF0183-120821	MSD	INITIAL	P	T	1	12/19/21	SM4500-P-B	12/20/21	SM 4500-P-F	0.025	2.5	2.6	0.05	0.1	mg/L	101		80	120	20	
10590953	790000	SWBF0183-120821MS	4204934	SWBF0183-120821	MS	INITIAL	P	T	1	12/19/21	SM4500-P-B	12/20/21	SM 4500-P-F	0.025	2.5	2.6	0.05	0.1	mg/L	101		80	120		
10590953	790000	4204932BLANK_10590953	4204932		MB	INITIAL	P	T	1	12/19/21	SM4500-P-B	12/20/21	SM 4500-P-F			0.05	0.05	0.1	mg/L						
10590953	790000	4204933LCS_10590953	4204933		LCS	INITIAL	P	T	1	12/19/21	SM4500-P-B	12/20/21	SM 4500-P-F		2.5	2.5	0.05	0.1	mg/L	101		90	110		
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	PbDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.00017	0.1	0.1	0.000028	0.0001	mg/L	102		70	130	20	
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	PbDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.00017	0.1	0.1	0.000028	0.0001	mg/L	101		70	130		
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	PbDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.000046	0.000028	0.0001	mg/L						
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	PbDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.11	0.000028	0.0001	mg/L	107		85	115		
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	PbDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.000036	0.1	0.11	0.000028	0.0001	mg/L	106		70	130		
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	PbDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.000036	0.1	0.1	0.000028	0.0001	mg/L	102	4	70	130	20	
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	PbDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	PbDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.000028	0.0001	mg/L	103		85	115		
10590953	788624	SWBF0183-120821MS	4197940	SWBF0183-120821	MS	INITIAL	PbTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.0014	0.1	0.11	0.000028	0.0001	mg/L	111		70	130		
10590953	788624	SWBF0183-120821MSD	4197941	SWBF0183-120821	MSD	INITIAL	PbTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.0014	0.1	0.1	0.000028	0.0001	mg/L	102	8	70	130	20	
10590953	788624	4197939LCS_10590953	4197939		LCS	INITIAL	PbTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.1	0.000028	0.0001	mg/L	105		85	115		
10590953	788624	4197938BLANK_10590953	4197938		MB	INITIAL	PbTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8			0.000028	0.000028	0.0001	mg/L						
10590953	789271	SWBF0183-120821MSD	4200858	SWBF0183-120821	MSD	INITIAL	SO4	T	20	12/15/21	METHOD	12/15/21	ASTM D516-90-0	574	80	573	24.2	50	mg/L	0		80	120	30	
10590953	789271	SWBF0183-120821MS	4200857	SWBF0183-120821	MS	INITIAL	SO4	T	20	12/15/21	METHOD	12/15/21	ASTM D516-90-0	574	80	574	24.2	50	mg/L	1		80	120		
10590953	789271	4200852BLANK_10590953	4200852		MB	INITIAL	SO4	T	1	12/15/21	METHOD	12/15/21	ASTM D516-90-02			1.2	1.2	2.5	mg/L						
10590953	789271	4200853LCS_10590953	4200853		LCS	INITIAL	SO4	T	1	12/15/21	METHOD	12/15/21	ASTM D516-90-02		20	18.6	1.2	2.5	mg/L	93		80	120		
10590953	789271	4200854LCSD_10590953	4200854	200853LCS_1059095	LCSD	INITIAL	SO4	T	1	12/15/21	METHOD	12/15/21	ASTM D516-90-02		20	19.1	1.2	2.5	mg/L	96	2	80	120	20	
10590953	789285	4200911BLANK_10590953	4200911		MB	INITIAL	TDS	D	1	12/15/21	METHOD	12/15/21	SM 2540C			5	5	10	mg/L						
10590953	789285	4200912LCS_10590953	4200912		LCS	INITIAL	TDS	D	1	12/15/21	METHOD	12/15/21	SM 2540C		1000	986	10	20	mg/L	99		80	120		
10590953	789286	4200917BLANK_10590953	4200917		MB	INITIAL	TDS	D	1	12/15/21	METHOD	12/15/21	SM 2540C			5	5	10	mg/L						
10590953	789286	4200918LCS_10590953	4200918		LCS	INITIAL	TDS	D	1	12/15/21	METHOD	12/15/21	SM 2540C		1000	986	10	20	mg/L	99		80	120		
10590953	789408	4201487BLANK_10590953	4201487		MB	INITIAL	TDS	D	1	12/15/21	METHOD	12/15/21	SM 2540C			5	5	10	mg/L						

Highlighted cells indicate field precision outside of criteria

Table A5d. BPSOU 2021 Normal Flow Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit	QCResultNote
10590953	789408	4201488LCS_10590953	4201488		LCS	INITIAL	TDS	D	1	12/15/21	METHOD	12/15/21	SM 2540C		1000	998	10	20	mg/L	100		80	120		
10590953	789408	SWBF0183-120821DUP	4201489	SWBF0183-120821	LR	INITIAL	TDS	D	1	12/15/21	METHOD	12/15/21	SM 2540C	964		968	5	10	mg/L					5	
10590953	763092	3052463BLANK_10590953	3052463		MB	INITIAL	TKN	T	1	12/21/21	METHOD	12/23/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10590953	763092	3052464LCS_10590953	3052464		LCS	INITIAL	TKN	T	1	12/21/21	METHOD	12/23/21	EPA 351.2		5	5.2	0.48	0.5	mg/L	104		90	110		
10590953	763092	SWBF0188-120821MS	3052467	SWBF0188-120821	MS	INITIAL	TKN	T	1	12/21/21	METHOD	12/23/21	EPA 351.2	0.35	5	5.5	0.48	0.5	mg/L	103		90	110		
10590953	763368	SWBF0183-120821MS	3053237	SWBF0183-120821	MS	INITIAL	TKN	T	1	12/22/21	METHOD	12/23/21	EPA 351.2	0.5	5	5.3	0.48	0.5	mg/L	97		90	110		
10590953	763368	SWBF0183-120821DUP	3053238	SWBF0183-120821	LR	INITIAL	TKN	T	1	12/22/21	METHOD	12/23/21	EPA 351.2	0.5		0.51	0.48	0.5	mg/L		1			10	
10590953	763368	3053235BLANK_10590953	3053235		MB	INITIAL	TKN	T	1	12/22/21	METHOD	12/23/21	EPA 351.2			0.48	0.48	0.5	mg/L						
10590953	763368	3053236LCS_10590953	3053236		LCS	INITIAL	TKN	T	1	12/22/21	METHOD	12/23/21	EPA 351.2		5	5	0.48	0.5	mg/L	99		90	110		
10590953	788929	4199058BLANK_10590953	4199058		MB	INITIAL	TSS	T	1	12/14/21	METHOD	12/14/21	SM 2540D			5	5	10	mg/L						
10590953	788929	4199059LCS_10590953	4199059		LCS	INITIAL	TSS	T	1	12/14/21	METHOD	12/14/21	SM 2540D		100	90	10	20	mg/L	90		80	120		
10590953	788929	SWBF0183-120821DUP	4199061	SWBF0183-120821	LR	INITIAL	TSS	T	1	12/14/21	METHOD	12/14/21	SM 2540D	2.5		3.5	5	10	mg/L					5	
10590953	788628	SWBF0183-120821MSD	4197959	SWBF0183-120821	MSD	INITIAL	ZnDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.03	0.1	0.12	0.002	0.005	mg/L	95	1	70	130	20	
10590953	788628	SWBF0183-120821MS	4197958	SWBF0183-120821	MS	INITIAL	ZnDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8	0.03	0.1	0.12	0.002	0.005	mg/L	94		70	130		
10590953	788628	4197957LCS_10590953	4197957		LCS	INITIAL	ZnDis	D	1	12/14/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.1	0.002	0.005	mg/L	104		85	115		
10590953	788628	4197956BLANK_10590953	4197956		MB	INITIAL	ZnDis	D	1	12/14/21	EPA 200.8	12/23/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10590953	790609	4207612LCS_10590953	4207612		LCS	INITIAL	ZnDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8		0.1	0.1	0.002	0.005	mg/L	103		85	115		
10590953	790609	4207611BLANK_10590953	4207611		MB	INITIAL	ZnDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8			0.002	0.002	0.005	mg/L						
10590953	790609	SWBF0186-120821MSD	4207614	SWBF0186-120821	MSD	INITIAL	ZnDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.00066	0.1	0.1	0.002	0.005	mg/L	102	3	70	130	20	
10590953	790609	SWBF0186-120821MS	4207613	SWBF0186-120821	MS	INITIAL	ZnDis	D	1	12/22/21	EPA 200.8	12/23/21	EPA 200.8	0.00066	0.1	0.11	0.002	0.005	mg/L	105		70	130		
10590953	788624	SWBF0183-120821MS	4197940	SWBF0183-120821	MS	INITIAL	ZnTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.036	0.1	0.14	0.002	0.005	mg/L	108		70	130		
10590953	788624	SWBF0183-120821MSD	4197941	SWBF0183-120821	MSD	INITIAL	ZnTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8	0.036	0.1	0.13	0.002	0.005	mg/L	98	7	70	130	20	
10590953	788624	4197938BLANK_10590953	4197938		MB	REANALYSIS	ZnTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8			0.0021	0.002	0.005	mg/L						
10590953	788624	4197939LCS_10590953	4197939		LCS	INITIAL	ZnTR	T	1	12/13/21	EPA 200.8	12/21/21	EPA 200.8		0.1	0.1	0.002	0.005	mg/L	104		85	115		

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10562380	PACE_MPLS	SS-06G-P	5/23/2021	AgDis	mg/L	10562380008	SWWW0008-052321	IS1-N	7.7E-05	7.7E-05	0.0005	10562380009	SWWW0009-052321	IS1-D	0.000077	0.000077	0.0005	0.0	0
10562380	PACE_MPLS	SS-06G-P	5/24/2021	AgTR	mg/L	10562380008	SWWW0008-052321	IS1-N	0.00013	7.7E-05	0.0005	10562380009	SWWW0009-052321	IS1-D	0.00011	0.000077	0.0005	16.7	0.00002
10562380	PACE_MPLS	SS-06G-P	5/25/2021	AlDis	mg/L	10562380008	SWWW0008-052321	IS1-N	0.0089	0.0071	0.02	10562380009	SWWW0009-052321	IS1-D	0.0087	0.0071	0.02	2.3	0.0002
10562380	PACE_MPLS	SS-06G-P	5/26/2021	ALK_CaCO3	mg/L	10562380008	SWWW0008-052321	IS1-N	69	2	5	10562380009	SWWW0009-052321	IS1-D	69	2	5	0.0	
10562380	PACE_MPLS	SS-06G-P	5/27/2021	AlTR	mg/L	10562380008	SWWW0008-052321	IS1-N	1.2	0.0071	0.02	10562380009	SWWW0009-052321	IS1-D	1.1	0.0071	0.02	8.7	
10562380	PACE_MPLS	SS-06G-P	5/28/2021	AsDis	mg/L	10562380008	SWWW0008-052321	IS1-N	0.0035	0.00014	0.0005	10562380009	SWWW0009-052321	IS1-D	0.0036	0.00014	0.0005	2.8	
10562380	PACE_MPLS	SS-06G-P	5/29/2021	AsTR	mg/L	10562380008	SWWW0008-052321	IS1-N	0.0074	0.00014	0.0005	10562380009	SWWW0009-052321	IS1-D	0.008	0.00014	0.0005	7.8	
10562380	PACE_MPLS	SS-06G-P	5/30/2021	CaDis	mg/L	10562380008	SWWW0008-052321	IS1-N	143	0.15	0.4	10562380009	SWWW0009-052321	IS1-D	139	0.15	0.4	2.8	
10562380	PACE_MPLS	SS-06G-P	5/31/2021	CdDis	mg/L	10562380008	SWWW0008-052321	IS1-N	8.3E-05	0.00003	0.00008	10562380009	SWWW0009-052321	IS1-D	0.000077	0.00003	0.00008	7.5	0.000006
10562380	PACE_MPLS	SS-06G-P	6/1/2021	CdTR	mg/L	10562380008	SWWW0008-052321	IS1-N	0.00024	0.00003	0.00008	10562380009	SWWW0009-052321	IS1-D	0.00024	0.00003	0.00008	0.0	0
10562380	PACE_MPLS	SS-06G-P	6/2/2021	CuDis	mg/L	10562380008	SWWW0008-052321	IS1-N	0.0051	0.00043	0.001	10562380009	SWWW0009-052321	IS1-D	0.005	0.00043	0.001	2.0	
10562380	PACE_MPLS	SS-06G-P	6/3/2021	CuTR	mg/L	10562380008	SWWW0008-052321	IS1-N	0.032	0.00043	0.001	10562380009	SWWW0009-052321	IS1-D	0.031	0.00043	0.001	3.2	
10562380	PACE_LEN	SS-06G-P	6/4/2021	DOC	mg/L	10562380008	SWWW0008-052321	IS1-N	10.2	0.3	1	10562380009	SWWW0009-052321	IS1-D	10.1	0.3	1	1.0	
10562380	PACE_MPLS	SS-06G-P	6/5/2021	FeDis	mg/L	10562380008	SWWW0008-052321	IS1-N	0.025	0.012	0.05	10562380009	SWWW0009-052321	IS1-D	0.029	0.012	0.05	14.8	0.004
10562380	PACE_MPLS	SS-06G-P	6/6/2021	FeTR	mg/L	10562380008	SWWW0008-052321	IS1-N	1.8	0.012	0.05	10562380009	SWWW0009-052321	IS1-D	1.8	0.012	0.05	0.0	
10562380	PACE_MPLS	SS-06G-P	6/7/2021	Hard	mg/L	10562380008	SWWW0008-052321	IS1-N	399	0.54	1.4	10562380009	SWWW0009-052321	IS1-D	390	0.54	1.4	2.3	
10562380	PACE_MPLS	SS-06G-P	6/8/2021	HgDis	mg/L	10562380008	SWWW0008-052321	IS1-N	4.5E-05	4.5E-05	0.0002	10562380009	SWWW0009-052321	IS1-D	0.000045	0.000045	0.0002	0.0	0
10562380	PACE_MPLS	SS-06G-P	6/9/2021	HgTR	mg/L	10562380008	SWWW0008-052321	IS1-N	4.5E-05	4.5E-05	0.0002	10562380009	SWWW0009-052321	IS1-D	0.000045	0.000045	0.0002	0.0	0
10562380	PACE_MPLS	SS-06G-P	6/10/2021	MgDis	mg/L	10562380008	SWWW0008-052321	IS1-N	10.4	0.0039	0.01	10562380009	SWWW0009-052321	IS1-D	10.3	0.0039	0.01	1.0	
10562380	PACE_MPLS	SS-06G-P	6/11/2021	MoDis	mg/L	10562380008	SWWW0008-052321	IS1-N	0.23	8.1E-05	0.0005	10562380009	SWWW0009-052321	IS1-D	0.22	0.000081	0.0005	4.4	
10562380	PACE_MPLS	SS-06G-P	6/12/2021	MoTR	mg/L	10562380008	SWWW0008-052321	IS1-N	0.22	8.1E-05	0.0005	10562380009	SWWW0009-052321	IS1-D	0.23	0.000081	0.0005	4.4	
10562380	PACE_MPLS	SS-06G-P	6/13/2021	NH3-N	mg/L	10562380008	SWWW0008-052321	IS1-N	0.03	0.03	0.1	10562380009	SWWW0009-052321	IS1-D	0.03	0.03	0.1	0.0	0
10562380	PACE_MPLS	SS-06G-P	6/14/2021	NO3/NO2-N	mg/L	10562380008	SWWW0008-052321	IS1-N	0.67	0.078	0.2	10562380009	SWWW0009-052321	IS1-D	0.66	0.078	0.2	1.5	0.01
10562380	PACE_MPLS	SS-06G-P	6/15/2021	P	mg/L	10562380008	SWWW0008-052321	IS1-N	0.23	0.05	0.1	10562380009	SWWW0009-052321	IS1-D	0.24	0.05	0.1	4.3	0.01
10562380	PACE_MPLS	SS-06G-P	6/16/2021	PbDis	mg/L	10562380008	SWWW0008-052321	IS1-N	0.00014	4.3E-05	0.0001	10562380009	SWWW0009-052321	IS1-D	0.00014	0.000043	0.0001	0.0	0
10562380	PACE_MPLS	SS-06G-P	6/17/2021	PbTR	mg/L	10562380008	SWWW0008-052321	IS1-N	0.011	4.3E-05	0.0001	10562380009	SWWW0009-052321	IS1-D	0.012	0.000043	0.0001	8.7	
10562380	PACE_MPLS	SS-06G-P	6/18/2021	SO4	mg/L	10562380008	SWWW0008-052321	IS1-N	415	30.2	62.5	10562380009	SWWW0009-052321	IS1-D	397	30.2	62.5	4.4	
10562380	PACE_MPLS	SS-06G-P	6/19/2021	TDS	mg/L	10562380008	SWWW0008-052321	IS1-N	722	5	10	10562380009	SWWW0009-052321	IS1-D	719	5	10	0.4	
10562380	PACE_LEN	SS-06G-P	6/20/2021	TKN	mg/L	10562380008	SWWW0008-052321	IS1-N	0.91	0.48	0.5	10562380009	SWWW0009-052321	IS1-D	0.89	0.48	0.5	2.2	0.02
10562380	PACE_MPLS	SS-06G-P	6/21/2021	TSS	mg/L	10562380008	SWWW0008-052321	IS1-N	40.3	5	10	10562380009	SWWW0009-052321	IS1-D	52.5	5	10	26.3	12.2
10562380	PACE_MPLS	SS-06G-P	6/22/2021	ZnDis	mg/L	10562380008	SWWW0008-052321	IS1-N	0.042	0.0023	0.005	10562380009	SWWW0009-052321	IS1-D	0.042	0.0023	0.005	0.0	
10562380	PACE_MPLS	SS-06G-P	6/23/2021	ZnTR	mg/L	10562380008	SWWW0008-052321	IS1-N	0.091	0.0023	0.005	10562380009	SWWW0009-052321	IS1-D	0.094	0.0023	0.005	3.2	
10562380	PACE_MPLS	SS-07-P	6/24/2021	AgDis	mg/L	10562380042	SWWW0042-052321	IS1-N	0.00009	7.7E-05	0.0005	10562380043	SWWW0043-052321	IS1-D	0.000077	0.000077	0.0005	15.6	0.000013
10562380	PACE_MPLS	SS-07-P	6/25/2021	AgTR	mg/L	10562380042	SWWW0042-052321	IS1-N	0.00017	7.7E-05	0.0005	10562380043	SWWW0043-052321	IS1-D	0.000077	0.000077	0.0005	75.3	0.000093
10562380	PACE_MPLS	SS-07-P	6/26/2021	AlDis	mg/L	10562380042	SWWW0042-052321	IS1-N	0.008	0.0071	0.02	10562380043	SWWW0043-052321	IS1-D	0.0093	0.0071	0.02	15.0	0.0013
10562380	PACE_MPLS	SS-07-P	6/27/2021	ALK_CaCO3	mg/L	10562380042	SWWW0042-052321	IS1-N	82	2	5	10562380043	SWWW0043-052321	IS1-D	82.2	2	5	0.2	
10562380	PACE_MPLS	SS-07-P	6/28/2021	AlTR	mg/L	10562380042	SWWW0042-052321	IS1-N	0.69	0.0071	0.02	10562380043	SWWW0043-052321	IS1-D	0.67	0.0071	0.02	2.9	
10562380	PACE_MPLS	SS-07-P	6/29/2021	AsDis	mg/L	10562380042	SWWW0042-052321	IS1-N	0.0026	0.00014	0.0005	10562380043	SWWW0043-052321	IS1-D	0.0027	0.00014	0.0005	3.8	
10562380	PACE_MPLS	SS-07-P	6/30/2021	AsTR	mg/L	10562380042	SWWW0042-052321	IS1-N	0.0053	0.00014	0.0005	10562380043	SWWW0043-052321	IS1-D	0.0054	0.00014	0.0005	1.9	
10562380	PACE_MPLS	SS-07-P	7/1/2021	CaDis	mg/L	10562380042	SWWW0042-052321	IS1-N	126	0.15	0.4	10562380043	SWWW0043-052321	IS1-D	119	0.15	0.4	5.7	
10562380	PACE_MPLS	SS-07-P	7/2/2021	CdDis	mg/L	10562380042	SWWW0042-052321	IS1-N	0.00007	0.00003	0.00008	10562380043	SWWW0043-052321	IS1-D	0.000065	0.00003	0.00008	7.4	0.000005
10562380	PACE_MPLS	SS-07-P	7/3/2021	CdTR	mg/L	10562380042	SWWW0042-052321	IS1-N	0.00016	0.00003	0.00008	10562380043	SWWW0043-052321	IS1-D	0.00016	0.00003	0.00008	0.0	0
10562380	PACE_MPLS	SS-07-P	7/4/2021	CuDis	mg/L	10562380042	SWWW0042-052321	IS1-N	0.0062	0.00043	0.001	10562380043	SWWW0043-052321	IS1-D	0.0064	0.00043	0.001	3.2	
10562380	PACE_MPLS	SS-07-P	7/5/2021	CuTR	mg/L	10562380042	SWWW0042-052321	IS1-N	0.022	0.00043	0.001	10562380043	SWWW0043-052321	IS1-D	0.022	0.00043	0.001	0.0	

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10562380	PACE_LEN	SS-07-P	7/6/2021	DOC	mg/L	10562380042	SWWW0042-052321	IS1-N	7.9	0.59	2	10562380043	SWWW0043-052321	IS1-D	8.3	0.59	2	4.9	0.4
10562380	PACE_MPLS	SS-07-P	7/7/2021	FeDis	mg/L	10562380042	SWWW0042-052321	IS1-N	0.019	0.012	0.05	10562380043	SWWW0043-052321	IS1-D	0.02	0.012	0.05	5.1	0.001
10562380	PACE_MPLS	SS-07-P	7/8/2021	FeTR	mg/L	10562380042	SWWW0042-052321	IS1-N	1.3	0.012	0.05	10562380043	SWWW0043-052321	IS1-D	1.3	0.012	0.05	0.0	
10562380	PACE_MPLS	SS-07-P	7/9/2021	Hard	mg/L	10562380042	SWWW0042-052321	IS1-N	357	0.54	1.4	10562380043	SWWW0043-052321	IS1-D	340	0.54	1.4	4.9	
10562380	PACE_MPLS	SS-07-P	7/10/2021	HgDis	mg/L	10562380042	SWWW0042-052321	IS1-N	4.5E-05	4.5E-05	0.0002	10562380043	SWWW0043-052321	IS1-D	0.000045	0.000045	0.0002	0.0	0
10562380	PACE_MPLS	SS-07-P	7/11/2021	HgTR	mg/L	10562380042	SWWW0042-052321	IS1-N	4.5E-05	4.5E-05	0.0002	10562380043	SWWW0043-052321	IS1-D	0.000045	0.000045	0.0002	0.0	0
10562380	PACE_MPLS	SS-07-P	7/12/2021	MgDis	mg/L	10562380042	SWWW0042-052321	IS1-N	10.2	0.0039	0.01	10562380043	SWWW0043-052321	IS1-D	10.5	0.0039	0.01	2.9	
10562380	PACE_MPLS	SS-07-P	7/13/2021	MoDis	mg/L	10562380042	SWWW0042-052321	IS1-N	0.17	8.1E-05	0.0005	10562380043	SWWW0043-052321	IS1-D	0.17	0.000081	0.0005	0.0	
10562380	PACE_MPLS	SS-07-P	7/14/2021	MoTR	mg/L	10562380042	SWWW0042-052321	IS1-N	0.18	8.1E-05	0.0005	10562380043	SWWW0043-052321	IS1-D	0.18	0.000081	0.0005	0.0	
10562380	PACE_MPLS	SS-07-P	7/15/2021	NH3-N	mg/L	10562380042	SWWW0042-052321	IS1-N	0.06	0.03	0.1	10562380043	SWWW0043-052321	IS1-D	0.058	0.03	0.1	3.4	0.002
10562380	PACE_MPLS	SS-07-P	7/16/2021	NO3/NO2-N	mg/L	10562380042	SWWW0042-052321	IS1-N	1.2	0.078	0.2	10562380043	SWWW0043-052321	IS1-D	1.3	0.078	0.2	8.0	
10562380	PACE_MPLS	SS-07-P	7/17/2021	P	mg/L	10562380042	SWWW0042-052321	IS1-N	0.087	0.05	0.1	10562380043	SWWW0043-052321	IS1-D	0.082	0.05	0.1	5.9	0.005
10562380	PACE_MPLS	SS-07-P	7/18/2021	PbDis	mg/L	10562380042	SWWW0042-052321	IS1-N	0.00013	4.3E-05	0.0001	10562380043	SWWW0043-052321	IS1-D	0.00012	0.000043	0.0001	8.0	1E-05
10562380	PACE_MPLS	SS-07-P	7/19/2021	PbTR	mg/L	10562380042	SWWW0042-052321	IS1-N	0.0074	4.3E-05	0.0001	10562380043	SWWW0043-052321	IS1-D	0.0075	0.000043	0.0001	1.3	
10562380	PACE_MPLS	SS-07-P	7/20/2021	SO4	mg/L	10562380042	SWWW0042-052321	IS1-N	251	24.2	50	10562380043	SWWW0043-052321	IS1-D	261	24.2	50	3.9	
10562380	PACE_MPLS	SS-07-P	7/21/2021	TDS	mg/L	10562380042	SWWW0042-052321	IS1-N	616	5	10	10562380043	SWWW0043-052321	IS1-D	622	5	10	1.0	
10562380	PACE_LEN	SS-07-P	7/22/2021	TKN	mg/L	10562380042	SWWW0042-052321	IS1-N	0.48	0.48	0.5	10562380043	SWWW0043-052321	IS1-D	0.8	0.48	0.5	50.0	0.32
10562380	PACE_MPLS	SS-07-P	7/23/2021	TSS	mg/L	10562380042	SWWW0042-052321	IS1-N	18.8	5	10	10562380043	SWWW0043-052321	IS1-D	22.5	5	10	17.9	3.7
10562380	PACE_MPLS	SS-07-P	7/24/2021	ZnDis	mg/L	10562380042	SWWW0042-052321	IS1-N	0.046	0.0023	0.005	10562380043	SWWW0043-052321	IS1-D	0.048	0.0023	0.005	4.3	
10562380	PACE_MPLS	SS-07-P	7/25/2021	ZnTR	mg/L	10562380042	SWWW0042-052321	IS1-N	0.073	0.0023	0.005	10562380043	SWWW0043-052321	IS1-D	0.073	0.0023	0.005	0.0	
10562853	PACE_MPLS	SS-01	7/26/2021	AgDis	mg/L	10562853004	SWWW0048-052621	IS1-N	7.7E-05	7.7E-05	0.0005	10562853005	SWWW0049-052621	IS1-D	0.000077	0.000077	0.0005	0.0	0
10562853	PACE_MPLS	SS-01	7/27/2021	AgTR	mg/L	10562853004	SWWW0048-052621	IS1-N	0.00038	0.00038	0.0025	10562853005	SWWW0049-052621	IS1-D	0.00038	0.00038	0.0025	0.0	0
10562853	PACE_MPLS	SS-01	7/28/2021	AlDis	mg/L	10562853004	SWWW0048-052621	IS1-N	0.011	0.0071	0.02	10562853005	SWWW0049-052621	IS1-D	0.0097	0.0071	0.02	12.6	0.0013
10562853	PACE_MPLS	SS-01	7/29/2021	ALK_CaCO3	mg/L	10562853004	SWWW0048-052621	IS1-N	66.5	2	5	10562853005	SWWW0049-052621	IS1-D	65.8	2	5	1.1	
10562853	PACE_MPLS	SS-01	7/30/2021	AlTR	mg/L	10562853004	SWWW0048-052621	IS1-N	2.9	0.036	0.1	10562853005	SWWW0049-052621	IS1-D	2.8	0.036	0.1	3.5	
10562853	PACE_MPLS	SS-01	7/31/2021	AsDis	mg/L	10562853004	SWWW0048-052621	IS1-N	0.0025	0.00014	0.0005	10562853005	SWWW0049-052621	IS1-D	0.0026	0.00014	0.0005	3.9	
10562853	PACE_MPLS	SS-01	8/1/2021	AsTR	mg/L	10562853004	SWWW0048-052621	IS1-N	0.0058	0.0007	0.0025	10562853005	SWWW0049-052621	IS1-D	0.006	0.0007	0.0025	3.4	0.0002
10562853	PACE_MPLS	SS-01	8/2/2021	CaDis	mg/L	10562853004	SWWW0048-052621	IS1-N	22.4	0.015	0.04	10562853005	SWWW0049-052621	IS1-D	22.6	0.015	0.04	0.9	
10562853	PACE_MPLS	SS-01	8/3/2021	CdDis	mg/L	10562853004	SWWW0048-052621	IS1-N	3.1E-05	0.00003	0.00008	10562853005	SWWW0049-052621	IS1-D	0.000031	0.00003	0.00008	0.0	0
10562853	PACE_MPLS	SS-01	8/4/2021	CdTR	mg/L	10562853004	SWWW0048-052621	IS1-N	0.0002	0.00015	0.0004	10562853005	SWWW0049-052621	IS1-D	0.00022	0.00015	0.0004	9.5	0.00002
10562853	PACE_MPLS	SS-01	8/5/2021	CuDis	mg/L	10562853004	SWWW0048-052621	IS1-N	0.0046	0.00043	0.001	10562853005	SWWW0049-052621	IS1-D	0.0047	0.00043	0.001	2.2	0.0001
10562853	PACE_MPLS	SS-01	8/6/2021	CuTR	mg/L	10562853004	SWWW0048-052621	IS1-N	0.04	0.0021	0.005	10562853005	SWWW0049-052621	IS1-D	0.04	0.0021	0.005	0.0	
10562853	PACE_MPLS	SS-01	8/7/2021	FeDis	mg/L	10562853004	SWWW0048-052621	IS1-N	0.14	0.012	0.05	10562853005	SWWW0049-052621	IS1-D	0.14	0.012	0.05	0.0	0
10562853	PACE_MPLS	SS-01	8/8/2021	FeTR	mg/L	10562853004	SWWW0048-052621	IS1-N	3.5	0.06	0.25	10562853005	SWWW0049-052621	IS1-D	3.6	0.06	0.25	2.8	
10562853	PACE_MPLS	SS-01	8/9/2021	Hard	mg/L	10562853004	SWWW0048-052621	IS1-N	81.8	0.054	0.14	10562853005	SWWW0049-052621	IS1-D	82.1	0.054	0.14	0.4	
10562853	PACE_MPLS	SS-01	8/10/2021	HgDis	mg/L	10562853004	SWWW0048-052621	IS1-N	4.5E-05	4.5E-05	0.0002	10562853005	SWWW0049-052621	IS1-D	0.000045	0.000045	0.0002	0.0	0
10562853	PACE_MPLS	SS-01	8/11/2021	HgTR	mg/L	10562853004	SWWW0048-052621	IS1-N	4.5E-05	4.5E-05	0.0002	10562853005	SWWW0049-052621	IS1-D	0.000045	0.000045	0.0002	0.0	0
10562853	PACE_MPLS	SS-01	8/12/2021	MgDis	mg/L	10562853004	SWWW0048-052621	IS1-N	6.3	0.0039	0.01	10562853005	SWWW0049-052621	IS1-D	6.2	0.0039	0.01	1.6	
10562853	PACE_MPLS	SS-01	8/13/2021	MoDis	mg/L	10562853004	SWWW0048-052621	IS1-N	0.0033	8.1E-05	0.0005	10562853005	SWWW0049-052621	IS1-D	0.0035	0.000081	0.0005	5.9	
10562853	PACE_MPLS	SS-01	8/14/2021	MoTR	mg/L	10562853004	SWWW0048-052621	IS1-N	0.0039	0.0004	0.0025	10562853005	SWWW0049-052621	IS1-D	0.0039	0.0004	0.0025	0.0	0
10562853	PACE_MPLS	SS-01	8/15/2021	NO3/NO2-N	mg/L	10562853004	SWWW0048-052621	IS1-N	0.33	0.078	0.2	10562853005	SWWW0049-052621	IS1-D	0.32	0.078	0.2	3.1	0.01
10562853	PACE_MPLS	SS-01	8/16/2021	PbDis	mg/L	10562853004	SWWW0048-052621	IS1-N	0.00041	4.3E-05	0.0001	10562853005	SWWW0049-052621	IS1-D	0.00042	0.000043	0.0001	2.4	0.00001
10562853	PACE_MPLS	SS-01	8/17/2021	PbTR	mg/L	10562853004	SWWW0048-052621	IS1-N	0.013	0.00022	0.0005	10562853005	SWWW0049-052621	IS1-D	0.014	0.00022	0.0005	7.4	
10562853	PACE_MPLS	SS-01	8/18/2021	SO4	mg/L	10562853004	SWWW0048-052621	IS1-N	33.7	1.2	2.5	10562853005	SWWW0049-052621	IS1-D	34.4	1.2	2.5	2.1	

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10562853	PACE_MPLS	SS-01	8/19/2021	TDS	mg/L	10562853004	SWWW0048-052621	IS1-N	168	5	10	10562853005	SWWW0049-052621	IS1-D	145	5	10	14.7	
10562853	PACE_MPLS	SS-01	8/20/2021	TSS	mg/L	10562853004	SWWW0048-052621	IS1-N	197	5	10	10562853005	SWWW0049-052621	IS1-D	117	5	10	51.0	
10562853	PACE_MPLS	SS-01	8/21/2021	ZnDis	mg/L	10562853004	SWWW0048-052621	IS1-N	0.0075	0.0023	0.005	10562853005	SWWW0049-052621	IS1-D	0.007	0.0023	0.005	6.9	0.0005
10562853	PACE_MPLS	SS-01	8/22/2021	ZnTR	mg/L	10562853004	SWWW0048-052621	IS1-N	0.072	0.011	0.025	10562853005	SWWW0049-052621	IS1-D	0.074	0.011	0.025	2.7	0.002
10562853	PACE_MPLS	SS-06A	8/23/2021	AgDis	mg/L	10562853038	SWWW0082-052621	IS1-N	7.7E-05	7.7E-05	0.0005	10562853039	SWWW0083-052621	IS1-D	0.000077	0.000077	0.0005	0.0	0
10562853	PACE_MPLS	SS-06A	8/24/2021	AgTR	mg/L	10562853038	SWWW0082-052621	IS1-N	7.7E-05	7.7E-05	0.0005	10562853039	SWWW0083-052621	IS1-D	0.000077	0.000077	0.0005	0.0	0
10562853	PACE_MPLS	SS-06A	8/25/2021	AlDis	mg/L	10562853038	SWWW0082-052621	IS1-N	0.0086	0.0071	0.02	10562853039	SWWW0083-052621	IS1-D	0.0074	0.0071	0.02	15.0	0.0012
10562853	PACE_MPLS	SS-06A	8/26/2021	ALK_CaCO3	mg/L	10562853038	SWWW0082-052621	IS1-N	61.7	2	5	10562853039	SWWW0083-052621	IS1-D	64.3	2	5	4.1	
10562853	PACE_MPLS	SS-06A	8/27/2021	AlTR	mg/L	10562853038	SWWW0082-052621	IS1-N	0.85	0.0071	0.02	10562853039	SWWW0083-052621	IS1-D	0.79	0.0071	0.02	7.3	
10562853	PACE_MPLS	SS-06A	8/28/2021	AsDis	mg/L	10562853038	SWWW0082-052621	IS1-N	0.0029	0.00014	0.0005	10562853039	SWWW0083-052621	IS1-D	0.0029	0.00014	0.0005	0.0	
10562853	PACE_MPLS	SS-06A	8/29/2021	AsTR	mg/L	10562853038	SWWW0082-052621	IS1-N	0.0055	0.00014	0.0005	10562853039	SWWW0083-052621	IS1-D	0.005	0.00014	0.0005	9.5	
10562853	PACE_MPLS	SS-06A	8/30/2021	CaDis	mg/L	10562853038	SWWW0082-052621	IS1-N	249	0.15	0.4	10562853039	SWWW0083-052621	IS1-D	250	0.15	0.4	0.4	
10562853	PACE_MPLS	SS-06A	8/31/2021	CdDis	mg/L	10562853038	SWWW0082-052621	IS1-N	3.3E-05	0.00003	0.00008	10562853039	SWWW0083-052621	IS1-D	0.00003	0.00003	0.00008	9.5	0.000003
10562853	PACE_MPLS	SS-06A	9/1/2021	CdTR	mg/L	10562853038	SWWW0082-052621	IS1-N	0.00012	0.00003	0.00008	10562853039	SWWW0083-052621	IS1-D	0.00012	0.00003	0.00008	0.0	0
10562853	PACE_MPLS	SS-06A	9/2/2021	CuDis	mg/L	10562853038	SWWW0082-052621	IS1-N	0.0044	0.00043	0.001	10562853039	SWWW0083-052621	IS1-D	0.0043	0.00043	0.001	2.3	0.0001
10562853	PACE_MPLS	SS-06A	9/3/2021	CuTR	mg/L	10562853038	SWWW0082-052621	IS1-N	0.017	0.00043	0.001	10562853039	SWWW0083-052621	IS1-D	0.016	0.00043	0.001	6.1	
10562853	PACE_MPLS	SS-06A	9/4/2021	FeDis	mg/L	10562853038	SWWW0082-052621	IS1-N	0.016	0.012	0.05	10562853039	SWWW0083-052621	IS1-D	0.012	0.012	0.05	28.6	0.004
10562853	PACE_MPLS	SS-06A	9/5/2021	FeTR	mg/L	10562853038	SWWW0082-052621	IS1-N	1.3	0.012	0.05	10562853039	SWWW0083-052621	IS1-D	1.1	0.012	0.05	16.7	
10562853	PACE_MPLS	SS-06A	9/6/2021	Hard	mg/L	10562853038	SWWW0082-052621	IS1-N	654	0.54	1.4	10562853039	SWWW0083-052621	IS1-D	654	0.54	1.4	0.0	
10562853	PACE_MPLS	SS-06A	9/7/2021	HgDis	mg/L	10562853038	SWWW0082-052621	IS1-N	4.5E-05	4.5E-05	0.0002	10562853039	SWWW0083-052621	IS1-D	0.000045	0.000045	0.0002	0.0	0
10562853	PACE_MPLS	SS-06A	9/8/2021	HgTR	mg/L	10562853038	SWWW0082-052621	IS1-N	4.5E-05	4.5E-05	0.0002	10562853039	SWWW0083-052621	IS1-D	0.000045	0.000045	0.0002	0.0	0
10562853	PACE_MPLS	SS-06A	9/9/2021	MgDis	mg/L	10562853038	SWWW0082-052621	IS1-N	7.7	0.0039	0.01	10562853039	SWWW0083-052621	IS1-D	7.5	0.0039	0.01	2.6	
10562853	PACE_MPLS	SS-06A	9/10/2021	MoDis	mg/L	10562853038	SWWW0082-052621	IS1-N	0.45	8.1E-05	0.0005	10562853039	SWWW0083-052621	IS1-D	0.44	0.000081	0.0005	2.3	
10562853	PACE_MPLS	SS-06A	9/11/2021	MoTR	mg/L	10562853038	SWWW0082-052621	IS1-N	0.42	0.00081	0.005	10562853039	SWWW0083-052621	IS1-D	0.44	0.000081	0.0005	4.7	
10562853	PACE_MPLS	SS-06A	9/12/2021	NO3/NO2-N	mg/L	10562853038	SWWW0082-052621	IS1-N	0.61	0.078	0.2	10562853039	SWWW0083-052621	IS1-D	0.61	0.078	0.2	0.0	0
10562853	PACE_MPLS	SS-06A	9/13/2021	PbDis	mg/L	10562853038	SWWW0082-052621	IS1-N	5.3E-05	4.3E-05	0.0001	10562853039	SWWW0083-052621	IS1-D	0.000049	0.000043	0.0001	7.8	0.000004
10562853	PACE_MPLS	SS-06A	9/14/2021	PbTR	mg/L	10562853038	SWWW0082-052621	IS1-N	0.0058	4.3E-05	0.0001	10562853039	SWWW0083-052621	IS1-D	0.0054	0.000043	0.0001	7.1	
10562853	PACE_MPLS	SS-06A	9/15/2021	SO4	mg/L	10562853038	SWWW0082-052621	IS1-N	544	121	250	10562853039	SWWW0083-052621	IS1-D	586	121	250	7.4	42
10562853	PACE_MPLS	SS-06A	9/16/2021	TDS	mg/L	10562853038	SWWW0082-052621	IS1-N	1040	25	50	10562853039	SWWW0083-052621	IS1-D	1060	25	50	1.9	
10562853	PACE_MPLS	SS-06A	9/17/2021	TSS	mg/L	10562853038	SWWW0082-052621	IS1-N	16.4	5	10	10562853039	SWWW0083-052621	IS1-D	18.5	5	10	12.0	2.1
10562853	PACE_MPLS	SS-06A	9/18/2021	ZnDis	mg/L	10562853038	SWWW0082-052621	IS1-N	0.015	0.0023	0.005	10562853039	SWWW0083-052621	IS1-D	0.015	0.0023	0.005	0.0	0
10562853	PACE_MPLS	SS-06A	9/19/2021	ZnTR	mg/L	10562853038	SWWW0082-052621	IS1-N	0.043	0.0023	0.005	10562853039	SWWW0083-052621	IS1-D	0.039	0.0023	0.005	9.8	
10565256	PACE_MPLS	SS-06G	9/20/2021	AgDis	mg/L	10565256012	SWWW0100-061021	IS1-N	7.7E-05	7.7E-05	0.0005	10565256013	SWWW0101-061021	IS1-D	0.000077	0.000077	0.0005	0.0	0
10565256	PACE_MPLS	SS-06G	9/21/2021	AgTR	mg/L	10565256012	SWWW0100-061021	IS1-N	7.7E-05	7.7E-05	0.0005	10565256013	SWWW0101-061021	IS1-D	0.000077	0.000077	0.0005	0.0	0
10565256	PACE_MPLS	SS-06G	9/22/2021	AlDis	mg/L	10565256012	SWWW0100-061021	IS1-N	0.0098	0.0071	0.02	10565256013	SWWW0101-061021	IS1-D	0.011	0.0071	0.02	11.5	0.0012
10565256	PACE_MPLS	SS-06G	9/23/2021	ALK_CaCO3	mg/L	10565256012	SWWW0100-061021	IS1-N	57.6	1.8	5	10565256013	SWWW0101-061021	IS1-D	56.8	1.8	5	1.4	
10565256	PACE_MPLS	SS-06G	9/24/2021	AlTR	mg/L	10565256012	SWWW0100-061021	IS1-N	0.44	0.0071	0.02	10565256013	SWWW0101-061021	IS1-D	0.32	0.0071	0.02	31.6	
10565256	PACE_MPLS	SS-06G	9/25/2021	AsDis	mg/L	10565256012	SWWW0100-061021	IS1-N	0.0029	0.00014	0.0005	10565256013	SWWW0101-061021	IS1-D	0.003	0.00014	0.0005	3.4	
10565256	PACE_MPLS	SS-06G	9/26/2021	AsTR	mg/L	10565256012	SWWW0100-061021	IS1-N	0.0054	0.00014	0.0005	10565256013	SWWW0101-061021	IS1-D	0.0046	0.00014	0.0005	16.0	
10565256	PACE_MPLS	SS-06G	9/27/2021	CaDis	mg/L	10565256012	SWWW0100-061021	IS1-N	238	0.15	0.4	10565256013	SWWW0101-061021	IS1-D	250	0.15	0.4	4.9	
10565256	PACE_MPLS	SS-06G	9/28/2021	CdDis	mg/L	10565256012	SWWW0100-061021	IS1-N	6.7E-05	0.00003	0.00008	10565256013	SWWW0101-061021	IS1-D	0.00003	0.00003	0.00008	76.3	0.000037
10565256	PACE_MPLS	SS-06G	9/29/2021	CdTR	mg/L	10565256012	SWWW0100-061021	IS1-N	0.0002	0.00003	0.00008	10565256013	SWWW0101-061021	IS1-D	0.00012	0.00003	0.00008	50.0	0.00008
10565256	PACE_MPLS	SS-06G	9/30/2021	CuDis	mg/L	10565256012	SWWW0100-061021	IS1-N	0.0065	0.00043	0.001	10565256013	SWWW0101-061021	IS1-D	0.0065	0.00043	0.001	0.0	
10565256	PACE_MPLS	SS-06G	10/1/2021	CuTR	mg/L	10565256012	SWWW0100-061021	IS1-N	0.023	0.00043	0.001	10565256013	SWWW0101-061021	IS1-D	0.018	0.00043	0.001	24.4	

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10565256	PACE_LEN	SS-06G	10/2/2021	DOC	mg/L	10565256012	SWWW0100-061021	IS1-N	5.9	0.3	1	10565256013	SWWW0101-061021	IS1-D	5.7	0.3	1	3.5	
10565256	PACE_MPLS	SS-06G	10/3/2021	FeDis	mg/L	10565256012	SWWW0100-061021	IS1-N	0.012	0.012	0.05	10565256013	SWWW0101-061021	IS1-D	0.012	0.012	0.05	0.0	0
10565256	PACE_MPLS	SS-06G	10/4/2021	FeTR	mg/L	10565256012	SWWW0100-061021	IS1-N	0.8	0.012	0.05	10565256013	SWWW0101-061021	IS1-D	0.63	0.012	0.05	23.8	
10565256	PACE_MPLS	SS-06G	10/5/2021	Hard	mg/L	10565256012	SWWW0100-061021	IS1-N	635	0.54	1.4	10565256013	SWWW0101-061021	IS1-D	665	0.54	1.4	4.6	
10565256	PACE_MPLS	SS-06G	10/6/2021	HgDis	mg/L	10565256012	SWWW0100-061021	IS1-N	4.5E-05	4.5E-05	0.0002	10565256013	SWWW0101-061021	IS1-D	0.000045	0.000045	0.0002	0.0	0
10565256	PACE_MPLS	SS-06G	10/7/2021	HgTR	mg/L	10565256012	SWWW0100-061021	IS1-N	4.5E-05	4.5E-05	0.0002	10565256013	SWWW0101-061021	IS1-D	0.000045	0.000045	0.0002	0.0	0
10565256	PACE_MPLS	SS-06G	10/8/2021	MgDis	mg/L	10565256012	SWWW0100-061021	IS1-N	10	0.0039	0.01	10565256013	SWWW0101-061021	IS1-D	9.7	0.0039	0.01	3.1	
10565256	PACE_MPLS	SS-06G	10/9/2021	MoDis	mg/L	10565256012	SWWW0100-061021	IS1-N	0.43	8.1E-05	0.0005	10565256013	SWWW0101-061021	IS1-D	0.46	0.000081	0.0005	6.7	
10565256	PACE_MPLS	SS-06G	10/10/2021	MoTR	mg/L	10565256012	SWWW0100-061021	IS1-N	0.51	0.0004	0.0025	10565256013	SWWW0101-061021	IS1-D	0.43	0.000081	0.0005	17.0	
10565256	PACE_MPLS	SS-06G	10/11/2021	NH3-N	mg/L	10565256012	SWWW0100-061021	IS1-N	0.03	0.03	0.1	10565256013	SWWW0101-061021	IS1-D	0.031	0.03	0.1	3.3	0.001
10565256	PACE_MPLS	SS-06G	10/12/2021	NO3/NO2-N	mg/L	10565256012	SWWW0100-061021	IS1-N	0.95	0.078	0.2	10565256013	SWWW0101-061021	IS1-D	0.96	0.078	0.2	1.1	0.01
10565256	PACE_MPLS	SS-06G	10/13/2021	P	mg/L	10565256012	SWWW0100-061021	IS1-N	0.21	0.05	0.1	10565256013	SWWW0101-061021	IS1-D	0.4	0.05	0.1	62.3	0.19
10565256	PACE_MPLS	SS-06G	10/14/2021	PbDis	mg/L	10565256012	SWWW0100-061021	IS1-N	0.00005	4.3E-05	0.0001	10565256013	SWWW0101-061021	IS1-D	0.000046	0.000043	0.0001	8.3	0.000004
10565256	PACE_MPLS	SS-06G	10/15/2021	PbTR	mg/L	10565256012	SWWW0100-061021	IS1-N	0.0044	4.3E-05	0.0001	10565256013	SWWW0101-061021	IS1-D	0.0034	0.000043	0.0001	25.6	
10565256	PACE_MPLS	SS-06G	10/16/2021	SO4	mg/L	10565256012	SWWW0100-061021	IS1-N	641	30.2	62.5	10565256013	SWWW0101-061021	IS1-D	643	30.2	62.5	0.3	
10565256	PACE_MPLS	SS-06G	10/17/2021	TDS	mg/L	10565256012	SWWW0100-061021	IS1-N	1070	25	50	10565256013	SWWW0101-061021	IS1-D	1160	25	50	8.1	
10565256	PACE_LEN	SS-06G	10/18/2021	TKN	mg/L	10565256012	SWWW0100-061021	IS1-N	0.88	0.48	0.5	10565256013	SWWW0101-061021	IS1-D	0.91	0.48	0.5	3.4	0.03
10565256	PACE_MPLS	SS-06G	10/19/2021	TSS	mg/L	10565256012	SWWW0100-061021	IS1-N	19.6	5	10	10565256013	SWWW0101-061021	IS1-D	11.6	5	10	51.3	8
10565256	PACE_MPLS	SS-06G	10/20/2021	ZnDis	mg/L	10565256012	SWWW0100-061021	IS1-N	0.016	0.0023	0.005	10565256013	SWWW0101-061021	IS1-D	0.017	0.0023	0.005	6.1	0.001
10565256	PACE_MPLS	SS-06G	10/21/2021	ZnTR	mg/L	10565256012	SWWW0100-061021	IS1-N	0.043	0.0023	0.005	10565256013	SWWW0101-061021	IS1-D	0.032	0.0023	0.005	29.3	
10565256	PACE_MPLS	SS-07-P	10/22/2021	AgDis	mg/L	10565256044	SWWW0130-061021	IS1-N	7.7E-05	7.7E-05	0.0005	10565256045	SWWW0131-061021	IS1-D	0.000077	0.000077	0.0005	0.0	0
10565256	PACE_MPLS	SS-07-P	10/23/2021	AgTR	mg/L	10565256044	SWWW0130-061021	IS1-N	7.7E-05	7.7E-05	0.0005	10565256045	SWWW0131-061021	IS1-D	0.000077	0.000077	0.0005	0.0	0
10565256	PACE_MPLS	SS-07-P	10/24/2021	AlDis	mg/L	10565256044	SWWW0130-061021	IS1-N	0.012	0.0071	0.02	10565256045	SWWW0131-061021	IS1-D	0.013	0.0071	0.02	8.0	0.001
10565256	PACE_MPLS	SS-07-P	10/25/2021	ALK_CaCO3	mg/L	10565256044	SWWW0130-061021	IS1-N	72	1.8	5	10565256045	SWWW0131-061021	IS1-D	73.2	1.8	5	1.7	
10565256	PACE_MPLS	SS-07-P	10/26/2021	AlTR	mg/L	10565256044	SWWW0130-061021	IS1-N	0.62	0.0071	0.02	10565256045	SWWW0131-061021	IS1-D	0.2	0.0071	0.02	102.4	
10565256	PACE_MPLS	SS-07-P	10/27/2021	AsDis	mg/L	10565256044	SWWW0130-061021	IS1-N	0.0028	0.00014	0.0005	10565256045	SWWW0131-061021	IS1-D	0.0026	0.00014	0.0005	7.4	
10565256	PACE_MPLS	SS-07-P	10/28/2021	AsTR	mg/L	10565256044	SWWW0130-061021	IS1-N	0.0049	0.00014	0.0005	10565256045	SWWW0131-061021	IS1-D	0.0039	0.00014	0.0005	22.7	
10565256	PACE_MPLS	SS-07-P	10/29/2021	CaDis	mg/L	10565256044	SWWW0130-061021	IS1-N	171	0.15	0.4	10565256045	SWWW0131-061021	IS1-D	163	0.15	0.4	4.8	
10565256	PACE_MPLS	SS-07-P	10/30/2021	CdDis	mg/L	10565256044	SWWW0130-061021	IS1-N	0.00009	0.00003	0.00008	10565256045	SWWW0131-061021	IS1-D	0.000068	0.00003	0.00008	27.9	0.000022
10565256	PACE_MPLS	SS-07-P	10/31/2021	CdTR	mg/L	10565256044	SWWW0130-061021	IS1-N	0.00017	0.00003	0.00008	10565256045	SWWW0131-061021	IS1-D	0.00016	0.00003	0.00008	6.1	0.00001
10565256	PACE_MPLS	SS-07-P	11/1/2021	CuDis	mg/L	10565256044	SWWW0130-061021	IS1-N	0.0064	0.00043	0.001	10565256045	SWWW0131-061021	IS1-D	0.0058	0.00043	0.001	9.8	
10565256	PACE_MPLS	SS-07-P	11/2/2021	CuTR	mg/L	10565256044	SWWW0130-061021	IS1-N	0.024	0.00043	0.001	10565256045	SWWW0131-061021	IS1-D	0.015	0.00043	0.001	46.2	
10565256	PACE_LEN	SS-07-P	11/3/2021	DOC	mg/L	10565256044	SWWW0130-061021	IS1-N	7.2	0.3	1	10565256045	SWWW0131-061021	IS1-D	7.3	0.3	1	1.4	
10565256	PACE_MPLS	SS-07-P	11/4/2021	FeDis	mg/L	10565256044	SWWW0130-061021	IS1-N	0.02	0.012	0.05	10565256045	SWWW0131-061021	IS1-D	0.021	0.012	0.05	4.9	0.001
10565256	PACE_MPLS	SS-07-P	11/5/2021	FeTR	mg/L	10565256044	SWWW0130-061021	IS1-N	0.94	0.012	0.05	10565256045	SWWW0131-061021	IS1-D	0.31	0.012	0.05	100.8	
10565256	PACE_MPLS	SS-07-P	11/6/2021	Hard	mg/L	10565256044	SWWW0130-061021	IS1-N	466	0.54	1.4	10565256045	SWWW0131-061021	IS1-D	445	0.54	1.4	4.6	
10565256	PACE_MPLS	SS-07-P	11/7/2021	HgDis	mg/L	10565256044	SWWW0130-061021	IS1-N	4.5E-05	4.5E-05	0.0002	10565256045	SWWW0131-061021	IS1-D	0.000045	0.000045	0.0002	0.0	0
10565256	PACE_MPLS	SS-07-P	11/8/2021	HgTR	mg/L	10565256044	SWWW0130-061021	IS1-N	4.5E-05	4.5E-05	0.0002	10565256045	SWWW0131-061021	IS1-D	0.000045	0.000045	0.0002	0.0	0
10565256	PACE_MPLS	SS-07-P	11/9/2021	MgDis	mg/L	10565256044	SWWW0130-061021	IS1-N	9.3	0.0039	0.01	10565256045	SWWW0131-061021	IS1-D	8.8	0.0039	0.01	5.5	
10565256	PACE_MPLS	SS-07-P	11/10/2021	MoDis	mg/L	10565256044	SWWW0130-061021	IS1-N	0.28	8.1E-05	0.0005	10565256045	SWWW0131-061021	IS1-D	0.26	0.000081	0.0005	7.4	
10565256	PACE_MPLS	SS-07-P	11/11/2021	MoTR	mg/L	10565256044	SWWW0130-061021	IS1-N	0.25	8.1E-05	0.0005	10565256045	SWWW0131-061021	IS1-D	0.27	0.000081	0.0005	7.7	
10565256	PACE_MPLS	SS-07-P	11/12/2021	NH3-N	mg/L	10565256044	SWWW0130-061021	IS1-N	0.03	0.03	0.1	10565256045	SWWW0131-061021	IS1-D	0.03	0.03	0.1	0.0	0
10565256	PACE_MPLS	SS-07-P	11/13/2021	NO3/NO2-N	mg/L	10565256044	SWWW0130-061021	IS1-N	0.69	0.078	0.2	10565256045	SWWW0131-061021	IS1-D	0.69	0.078	0.2	0.0	0
10565256	PACE_MPLS	SS-07-P	11/14/2021	P	mg/L	10565256044	SWWW0130-061021	IS1-N	0.16	0.05	0.1	10565256045	SWWW0131-061021	IS1-D	0.1	0.05	0.1	46.2	0.06

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10565256	PACE_MPLS	SS-07-P	11/15/2021	PbDis	mg/L	10565256044	SWWW0130-061021	IS1-N	0.00037	4.3E-05	0.0001	10565256045	SWWW0131-061021	IS1-D	0.00036	0.000043	0.0001	2.7	1E-05
10565256	PACE_MPLS	SS-07-P	11/16/2021	PbTR	mg/L	10565256044	SWWW0130-061021	IS1-N	0.0079	4.3E-05	0.0001	10565256045	SWWW0131-061021	IS1-D	0.0045	0.000043	0.0001	54.8	
10565256	PACE_MPLS	SS-07-P	11/17/2021	SO4	mg/L	10565256044	SWWW0130-061021	IS1-N	443	24.2	50	10565256045	SWWW0131-061021	IS1-D	410	24.2	50	7.7	
10565256	PACE_MPLS	SS-07-P	11/18/2021	TDS	mg/L	10565256044	SWWW0130-061021	IS1-N	796	10	20	10565256045	SWWW0131-061021	IS1-D	810	10	20	1.7	
10565256	PACE_LEN	SS-07-P	11/19/2021	TKN	mg/L	10565256044	SWWW0130-061021	IS1-N	1.2	0.48	0.5	10565256045	SWWW0131-061021	IS1-D	1	0.48	0.5	18.2	0.2
10565256	PACE_MPLS	SS-07-P	11/20/2021	TSS	mg/L	10565256044	SWWW0130-061021	IS1-N	32	5	10	10565256045	SWWW0131-061021	IS1-D	68.6	5	10	72.8	36.6
10565256	PACE_MPLS	SS-07-P	11/21/2021	ZnDis	mg/L	10565256044	SWWW0130-061021	IS1-N	0.043	0.0023	0.005	10565256045	SWWW0131-061021	IS1-D	0.04	0.0023	0.005	7.2	
10565256	PACE_MPLS	SS-07-P	11/22/2021	ZnTR	mg/L	10565256044	SWWW0130-061021	IS1-N	0.075	0.0023	0.005	10565256045	SWWW0131-061021	IS1-D	0.058	0.0023	0.005	25.6	
10568665	PACE_MPLS	SS-06G	11/23/2021	AgDis	mg/L	10568665012	SWWW0144-070121	IS1-N	7.7E-05	7.7E-05	0.0005	10568665013	SWWW0145-070121	IS1-D	0.000077	0.000077	0.0005	0.0	0
10568665	PACE_MPLS	SS-06G	11/24/2021	AgTR	mg/L	10568665012	SWWW0144-070121	IS1-N	0.00068	0.00016	0.0005	10568665013	SWWW0145-070121	IS1-D	0.00075	0.00016	0.0005	9.8	0.00007
10568665	PACE_MPLS	SS-06G	11/25/2021	AlDis	mg/L	10568665012	SWWW0144-070121	IS1-N	0.014	0.0071	0.02	10568665013	SWWW0145-070121	IS1-D	0.0071	0.0071	0.02	65.4	0.0069
10568665	PACE_MPLS	SS-06G	11/26/2021	ALK_CaCO3	mg/L	10568665012	SWWW0144-070121	IS1-N	77.5	1.8	5	10568665013	SWWW0145-070121	IS1-D	77.2	1.8	5	0.4	
10568665	PACE_MPLS	SS-06G	11/27/2021	AlTR	mg/L	10568665012	SWWW0144-070121	IS1-N	5.5	0.008	0.02	10568665013	SWWW0145-070121	IS1-D	5.4	0.008	0.02	1.8	
10568665	PACE_MPLS	SS-06G	11/28/2021	AsDis	mg/L	10568665012	SWWW0144-070121	IS1-N	0.0037	0.00014	0.0005	10568665013	SWWW0145-070121	IS1-D	0.0036	0.00014	0.0005	2.7	
10568665	PACE_MPLS	SS-06G	11/29/2021	AsTR	mg/L	10568665012	SWWW0144-070121	IS1-N	0.026	8.3E-05	0.0005	10568665013	SWWW0145-070121	IS1-D	0.025	0.000083	0.0005	3.9	
10568665	PACE_MPLS	SS-06G	11/30/2021	CaDis	mg/L	10568665012	SWWW0144-070121	IS1-N	262	0.3	0.8	10568665013	SWWW0145-070121	IS1-D	249	0.3	0.8	5.1	
10568665	PACE_MPLS	SS-06G	12/1/2021	CdDis	mg/L	10568665012	SWWW0144-070121	IS1-N	0.00003	0.00003	0.00008	10568665013	SWWW0145-070121	IS1-D	0.00003	0.00003	0.00008	0.0	0
10568665	PACE_MPLS	SS-06G	12/2/2021	CdTR	mg/L	10568665012	SWWW0144-070121	IS1-N	0.001	1.6E-05	0.00008	10568665013	SWWW0145-070121	IS1-D	0.0011	0.000016	0.00008	9.5	
10568665	PACE_MPLS	SS-06G	12/3/2021	CuDis	mg/L	10568665012	SWWW0144-070121	IS1-N	0.0047	0.00043	0.001	10568665013	SWWW0145-070121	IS1-D	0.0051	0.00043	0.001	8.2	0.0004
10568665	PACE_MPLS	SS-06G	12/4/2021	CuTR	mg/L	10568665012	SWWW0144-070121	IS1-N	0.16	0.0005	0.001	10568665013	SWWW0145-070121	IS1-D	0.16	0.0005	0.001	0.0	
10568665	PACE_LEN	SS-06G	12/5/2021	DOC	mg/L	10568665012	SWWW0144-070121	IS1-N	4.9	0.3	1	10568665013	SWWW0145-070121	IS1-D	4.9	0.3	1	0.0	0
10568665	PACE_MPLS	SS-06G	12/6/2021	FeDis	mg/L	10568665012	SWWW0144-070121	IS1-N	0.016	0.012	0.05	10568665013	SWWW0145-070121	IS1-D	0.014	0.012	0.05	13.3	0.002
10568665	PACE_MPLS	SS-06G	12/7/2021	FeTR	mg/L	10568665012	SWWW0144-070121	IS1-N	8.4	0.012	0.05	10568665013	SWWW0145-070121	IS1-D	8.2	0.012	0.05	2.4	
10568665	PACE_MPLS	SS-06G	12/8/2021	Hard	mg/L	10568665012	SWWW0144-070121	IS1-N	695	1.1	2.8	10568665013	SWWW0145-070121	IS1-D	661	1.1	2.8	5.0	
10568665	PACE_MPLS	SS-06G	12/9/2021	HgDis	mg/L	10568665012	SWWW0144-070121	IS1-N	4.5E-05	4.5E-05	0.0002	10568665013	SWWW0145-070121	IS1-D	0.000045	0.000045	0.0002	0.0	0
10568665	PACE_MPLS	SS-06G	12/10/2021	HgTR	mg/L	10568665012	SWWW0144-070121	IS1-N	0.00018	4.5E-05	0.0002	10568665013	SWWW0145-070121	IS1-D	0.00013	0.000045	0.0002	32.3	0.00005
10568665	PACE_MPLS	SS-06G	12/11/2021	MgDis	mg/L	10568665012	SWWW0144-070121	IS1-N	9.9	0.0039	0.01	10568665013	SWWW0145-070121	IS1-D	9.5	0.0039	0.01	4.1	
10568665	PACE_MPLS	SS-06G	12/12/2021	MoDis	mg/L	10568665012	SWWW0144-070121	IS1-N	0.38	8.1E-05	0.0005	10568665013	SWWW0145-070121	IS1-D	0.37	0.000081	0.0005	2.7	
10568665	PACE_MPLS	SS-06G	12/13/2021	MoTR	mg/L	10568665012	SWWW0144-070121	IS1-N	0.39	9.4E-05	0.0005	10568665013	SWWW0145-070121	IS1-D	0.36	0.000094	0.0005	8.0	
10568665	PACE_MPLS	SS-06G	12/14/2021	NH3-N	mg/L	10568665012	SWWW0144-070121	IS1-N	0.05	0.03	0.1	10568665013	SWWW0145-070121	IS1-D	0.039	0.03	0.1	24.7	0.011
10568665	PACE_MPLS	SS-06G	12/15/2021	NO3/NO2-N	mg/L	10568665012	SWWW0144-070121	IS1-N	1.1	0.078	0.2	10568665013	SWWW0145-070121	IS1-D	1.1	0.078	0.2	0.0	
10568665	PACE_MPLS	SS-06G	12/16/2021	P	mg/L	10568665012	SWWW0144-070121	IS1-N	0.72	0.05	0.1	10568665013	SWWW0145-070121	IS1-D	0.69	0.05	0.1	4.3	
10568665	PACE_MPLS	SS-06G	12/17/2021	PbDis	mg/L	10568665012	SWWW0144-070121	IS1-N	0.0001	4.3E-05	0.0001	10568665013	SWWW0145-070121	IS1-D	0.0001	0.000043	0.0001	0.0	0
10568665	PACE_MPLS	SS-06G	12/18/2021	PbTR	mg/L	10568665012	SWWW0144-070121	IS1-N	0.066	2.8E-05	0.0001	10568665013	SWWW0145-070121	IS1-D	0.063	0.000028	0.0001	4.7	
10568665	PACE_MPLS	SS-06G	12/19/2021	SO4	mg/L	10568665012	SWWW0144-070121	IS1-N	542	30.2	62.5	10568665013	SWWW0145-070121	IS1-D	566	30.2	62.5	4.3	
10568665	PACE_MPLS	SS-06G	12/20/2021	TDS	mg/L	10568665012	SWWW0144-070121	IS1-N	1060	5	10	10568665013	SWWW0145-070121	IS1-D	548	5	10	63.7	
10568665	PACE_LEN	SS-06G	12/21/2021	TKN	mg/L	10568665012	SWWW0144-070121	IS1-N	2.9	0.48	0.5	10568665013	SWWW0145-070121	IS1-D	3	0.48	0.5	3.4	
10568665	PACE_MPLS	SS-06G	12/22/2021	TSS	mg/L	10568665012	SWWW0144-070121	IS1-N	249	5	10	10568665013	SWWW0145-070121	IS1-D	204	5	10	19.9	
10568665	PACE_MPLS	SS-06G	12/23/2021	ZnDis	mg/L	10568665012	SWWW0144-070121	IS1-N	0.02	0.0023	0.005	10568665013	SWWW0145-070121	IS1-D	0.019	0.0023	0.005	5.1	0.001
10568665	PACE_MPLS	SS-06G	12/24/2021	ZnTR	mg/L	10568665012	SWWW0144-070121	IS1-N	0.38	0.002	0.005	10568665013	SWWW0145-070121	IS1-D	0.32	0.002	0.005	17.1	
10568665	PACE_MPLS	SS-01-P	12/25/2021	AgDis	mg/L	10568665022	SWWW0154-070121	IS1-N	0.0002	0.00016	0.0005	10568665023	SWWW0155-070121	IS1-D	0.00016	0.00016	0.0005	22.2	0.00004
10568665	PACE_MPLS	SS-01-P	12/26/2021	AgTR	mg/L	10568665022	SWWW0154-070121	IS1-N	0.0012	0.00016	0.0005	10568665023	SWWW0155-070121	IS1-D	0.0014	0.00016	0.0005	15.4	0.0002
10568665	PACE_MPLS	SS-01-P	12/27/2021	AlDis	mg/L	10568665022	SWWW0154-070121	IS1-N	0.031	0.008	0.02	10568665023	SWWW0155-070121	IS1-D	0.031	0.008	0.02	0.0	0
10568665	PACE_MPLS	SS-01-P	12/28/2021	ALK_CaCO3	mg/L	10568665022	SWWW0154-070121	IS1-N	74.6	1.8	5	10568665023	SWWW0155-070121	IS1-D	74.7	1.8	5	0.1	

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10568665	PACE_MPLS	SS-01-P	12/29/2021	AlTR	mg/L	10568665022	SWWW0154-070121	IS1-N	20	0.0071	0.02	10568665023	SWWW0155-070121	IS1-D	21.3	0.0071	0.02	6.3	
10568665	PACE_MPLS	SS-01-P	12/30/2021	AsDis	mg/L	10568665022	SWWW0154-070121	IS1-N	0.0041	8.3E-05	0.0005	10568665023	SWWW0155-070121	IS1-D	0.0042	0.000083	0.0005	2.4	
10568665	PACE_MPLS	SS-01-P	12/31/2021	AsTR	mg/L	10568665022	SWWW0154-070121	IS1-N	0.026	0.00014	0.0005	10568665023	SWWW0155-070121	IS1-D	0.029	0.00014	0.0005	10.9	
10568665	PACE_MPLS	SS-01-P	1/1/2022	CaDis	mg/L	10568665022	SWWW0154-070121	IS1-N	22.9	0.091	0.2	10568665023	SWWW0155-070121	IS1-D	22.3	0.091	0.2	2.7	
10568665	PACE_MPLS	SS-01-P	1/2/2022	CdDis	mg/L	10568665022	SWWW0154-070121	IS1-N	0.00006	1.6E-05	0.00008	10568665023	SWWW0155-070121	IS1-D	0.000042	0.000016	0.00008	35.3	0.000018
10568665	PACE_MPLS	SS-01-P	1/3/2022	CdTR	mg/L	10568665022	SWWW0154-070121	IS1-N	0.0012	0.00003	0.00008	10568665023	SWWW0155-070121	IS1-D	0.0013	0.00003	0.00008	8.0	
10568665	PACE_MPLS	SS-01-P	1/4/2022	CuDis	mg/L	10568665022	SWWW0154-070121	IS1-N	0.013	0.0005	0.001	10568665023	SWWW0155-070121	IS1-D	0.013	0.0005	0.001	0.0	
10568665	PACE_MPLS	SS-01-P	1/5/2022	CuTR	mg/L	10568665022	SWWW0154-070121	IS1-N	0.35	0.00043	0.001	10568665023	SWWW0155-070121	IS1-D	0.39	0.00043	0.001	10.8	
10568665	PACE_LEN	SS-01-P	1/6/2022	DOC	mg/L	10568665022	SWWW0154-070121	IS1-N	30.8	3	10	10568665023	SWWW0155-070121	IS1-D	31.7	3	10	2.9	0.9
10568665	PACE_MPLS	SS-01-P	1/7/2022	FeDis	mg/L	10568665022	SWWW0154-070121	IS1-N	0.12	0.012	0.05	10568665023	SWWW0155-070121	IS1-D	0.12	0.012	0.05	0.0	0
10568665	PACE_MPLS	SS-01-P	1/8/2022	FeTR	mg/L	10568665022	SWWW0154-070121	IS1-N	21.7	0.012	0.05	10568665023	SWWW0155-070121	IS1-D	24	0.12	0.5	10.1	
10568665	PACE_MPLS	SS-01-P	1/9/2022	Hard	mg/L	10568665022	SWWW0154-070121	IS1-N	81	0.3	0.7	10568665023	SWWW0155-070121	IS1-D	80.2	0.3	0.7	1.0	
10568665	PACE_MPLS	SS-01-P	1/10/2022	HgDis	mg/L	10568665022	SWWW0154-070121	IS1-N	4.5E-05	4.5E-05	0.0002	10568665023	SWWW0155-070121	IS1-D	0.000045	0.000045	0.0002	0.0	0
10568665	PACE_MPLS	SS-01-P	1/11/2022	HgTR	mg/L	10568665022	SWWW0154-070121	IS1-N	8.5E-05	4.5E-05	0.0002	10568665023	SWWW0155-070121	IS1-D	0.000095	0.000045	0.0002	11.1	0.00001
10568665	PACE_MPLS	SS-01-P	1/12/2022	MgDis	mg/L	10568665022	SWWW0154-070121	IS1-N	5.8	0.0034	0.01	10568665023	SWWW0155-070121	IS1-D	6	0.0034	0.01	3.4	
10568665	PACE_MPLS	SS-01-P	1/13/2022	MoDis	mg/L	10568665022	SWWW0154-070121	IS1-N	0.0041	9.4E-05	0.0005	10568665023	SWWW0155-070121	IS1-D	0.0042	0.000094	0.0005	2.4	
10568665	PACE_MPLS	SS-01-P	1/14/2022	MoTR	mg/L	10568665022	SWWW0154-070121	IS1-N	0.014	8.1E-05	0.0005	10568665023	SWWW0155-070121	IS1-D	0.015	0.000081	0.0005	6.9	
10568665	PACE_MPLS	SS-01-P	1/15/2022	NH3-N	mg/L	10568665022	SWWW0154-070121	IS1-N	0.072	0.03	0.1	10568665023	SWWW0155-070121	IS1-D	0.071	0.03	0.1	1.4	0.001
10568665	PACE_MPLS	SS-01-P	1/16/2022	NO3/NO2-N	mg/L	10568665022	SWWW0154-070121	IS1-N	0.094	0.078	0.2	10568665023	SWWW0155-070121	IS1-D	0.1	0.078	0.2	6.2	0.006
10568665	PACE_MPLS	SS-01-P	1/17/2022	P	mg/L	10568665022	SWWW0154-070121	IS1-N	1.2	0.05	0.1	10568665023	SWWW0155-070121	IS1-D	1	0.05	0.1	18.2	
10568665	PACE_MPLS	SS-01-P	1/18/2022	PbDis	mg/L	10568665022	SWWW0154-070121	IS1-N	0.00042	2.8E-05	0.0001	10568665023	SWWW0155-070121	IS1-D	0.00042	0.000028	0.0001	0.0	0
10568665	PACE_MPLS	SS-01-P	1/19/2022	PbTR	mg/L	10568665022	SWWW0154-070121	IS1-N	0.098	4.3E-05	0.0001	10568665023	SWWW0155-070121	IS1-D	0.11	0.000043	0.0001	11.5	
10568665	PACE_MPLS	SS-01-P	1/20/2022	SO4	mg/L	10568665022	SWWW0154-070121	IS1-N	27.7	1.2	2.5	10568665023	SWWW0155-070121	IS1-D	29.7	1.2	2.5	7.0	
10568665	PACE_MPLS	SS-01-P	1/21/2022	TDS	mg/L	10568665022	SWWW0154-070121	IS1-N	158	10	20	10568665023	SWWW0155-070121	IS1-D	146	10	20	7.9	
10568665	PACE_LEN	SS-01-P	1/22/2022	TKN	mg/L	10568665022	SWWW0154-070121	IS1-N	5.3	0.48	0.5	10568665023	SWWW0155-070121	IS1-D	8.8	0.48	0.5	49.7	
10568665	PACE_MPLS	SS-01-P	1/23/2022	TSS	mg/L	10568665022	SWWW0154-070121	IS1-N	984	10	20	10568665023	SWWW0155-070121	IS1-D	836	10	20	16.3	
10568665	PACE_MPLS	SS-01-P	1/24/2022	ZnDis	mg/L	10568665022	SWWW0154-070121	IS1-N	0.029	0.002	0.005	10568665023	SWWW0155-070121	IS1-D	0.03	0.002	0.005	3.4	
10568665	PACE_MPLS	SS-01-P	1/25/2022	ZnTR	mg/L	10568665022	SWWW0154-070121	IS1-N	0.59	0.02	0.05	10568665023	SWWW0155-070121	IS1-D	0.67	0.02	0.05	12.7	
10572927	PACE_MPLS	SS-06G	1/26/2022	AgDis	mg/L	10572927012	SWWW0188-080121	IS1-N	0.00016	0.00016	0.0005	10572927013	SWWW0189-080121	IS1-D	0.00016	0.00016	0.0005	0.0	0
10572927	PACE_MPLS	SS-06G	1/27/2022	AgTR	mg/L	10572927012	SWWW0188-080121	IS1-N	0.00016	0.00016	0.0005	10572927013	SWWW0189-080121	IS1-D	0.00016	0.00016	0.0005	0.0	0
10572927	PACE_MPLS	SS-06G	1/28/2022	AlDis	mg/L	10572927012	SWWW0188-080121	IS1-N	0.022	0.008	0.02	10572927013	SWWW0189-080121	IS1-D	0.021	0.008	0.02	4.7	0.001
10572927	PACE_MPLS	SS-06G	1/29/2022	ALK_CaCO3	mg/L	10572927012	SWWW0188-080121	IS1-N	54.4	1.8	5	10572927013	SWWW0189-080121	IS1-D	55	1.8	5	1.1	
10572927	PACE_MPLS	SS-06G	1/30/2022	AlTR	mg/L	10572927012	SWWW0188-080121	IS1-N	0.11	0.008	0.02	10572927013	SWWW0189-080121	IS1-D	0.11	0.008	0.02	0.0	
10572927	PACE_MPLS	SS-06G	1/31/2022	AsDis	mg/L	10572927012	SWWW0188-080121	IS1-N	0.0033	8.3E-05	0.0005	10572927013	SWWW0189-080121	IS1-D	0.0032	0.000083	0.0005	3.1	
10572927	PACE_MPLS	SS-06G	2/1/2022	AsTR	mg/L	10572927012	SWWW0188-080121	IS1-N	0.0037	8.3E-05	0.0005	10572927013	SWWW0189-080121	IS1-D	0.0038	0.000083	0.0005	2.7	
10572927	PACE_MPLS	SS-06G	2/2/2022	CaDis	mg/L	10572927012	SWWW0188-080121	IS1-N	250	0.18	0.4	10572927013	SWWW0189-080121	IS1-D	251	0.18	0.4	0.4	
10572927	PACE_MPLS	SS-06G	2/3/2022	CdDis	mg/L	10572927012	SWWW0188-080121	IS1-N	0.00004	1.6E-05	0.00008	10572927013	SWWW0189-080121	IS1-D	0.000033	0.000016	0.00008	19.2	0.000007
10572927	PACE_MPLS	SS-06G	2/4/2022	CdTR	mg/L	10572927012	SWWW0188-080121	IS1-N	8.4E-05	1.6E-05	0.00008	10572927013	SWWW0189-080121	IS1-D	0.000084	0.000016	0.00008	0.0	0
10572927	PACE_MPLS	SS-06G	2/5/2022	CuDis	mg/L	10572927012	SWWW0188-080121	IS1-N	0.0033	0.0005	0.001	10572927013	SWWW0189-080121	IS1-D	0.0033	0.0005	0.001	0.0	0
10572927	PACE_MPLS	SS-06G	2/6/2022	CuTR	mg/L	10572927012	SWWW0188-080121	IS1-N	0.0059	0.0005	0.001	10572927013	SWWW0189-080121	IS1-D	0.0062	0.0005	0.001	5.0	
10572927	PACE_LEN	SS-06G	2/7/2022	DOC	mg/L	10572927012	SWWW0188-080121	IS1-N	23.7	1.5	5	10572927013	SWWW0189-080121	IS1-D	20.8	1.5	5	13.0	2.9
10572927	PACE_MPLS	SS-06G	2/8/2022	FeDis	mg/L	10572927012	SWWW0188-080121	IS1-N	0.012	0.012	0.05	10572927013	SWWW0189-080121	IS1-D	0.012	0.012	0.05	0.0	0
10572927	PACE_MPLS	SS-06G	2/9/2022	FeTR	mg/L	10572927012	SWWW0188-080121	IS1-N	0.18	0.012	0.05	10572927013	SWWW0189-080121	IS1-D	0.18	0.012	0.05	0.0	0
10572927	PACE_MPLS	SS-06G	2/10/2022	Hard	mg/L	10572927012	SWWW0188-080121	IS1-N	654	0.6	1.4	10572927013	SWWW0189-080121	IS1-D	658	0.6	1.4	0.6	

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10572927	PACE_MPLS	SS-06G	2/11/2022	HgDis	mg/L	10572927012	SWWW0188-080121	IS1-N	4.5E-05	4.5E-05	0.0002	10572927013	SWWW0189-080121	IS1-D	0.000045	0.000045	0.0002	0.0	0
10572927	PACE_MPLS	SS-06G	2/12/2022	HgTR	mg/L	10572927012	SWWW0188-080121	IS1-N	4.5E-05	4.5E-05	0.0002	10572927013	SWWW0189-080121	IS1-D	0.000045	0.000045	0.0002	0.0	0
10572927	PACE_MPLS	SS-06G	2/13/2022	MgDis	mg/L	10572927012	SWWW0188-080121	IS1-N	7.5	0.0034	0.01	10572927013	SWWW0189-080121	IS1-D	7.4	0.0034	0.01	1.3	
10572927	PACE_MPLS	SS-06G	2/14/2022	MoDis	mg/L	10572927012	SWWW0188-080121	IS1-N	0.42	9.4E-05	0.0005	10572927013	SWWW0189-080121	IS1-D	0.42	0.000094	0.0005	0.0	
10572927	PACE_MPLS	SS-06G	2/15/2022	MoTR	mg/L	10572927012	SWWW0188-080121	IS1-N	0.38	9.4E-05	0.0005	10572927013	SWWW0189-080121	IS1-D	0.39	0.000094	0.0005	2.6	
10572927	PACE_MPLS	SS-06G	2/16/2022	NH3-N	mg/L	10572927012	SWWW0188-080121	IS1-N	0.03	0.03	0.1	10572927013	SWWW0189-080121	IS1-D	0.03	0.03	0.1	0.0	0
10572927	PACE_MPLS	SS-06G	2/17/2022	NO3/NO2-N	mg/L	10572927012	SWWW0188-080121	IS1-N	0.7	0.078	0.2	10572927013	SWWW0189-080121	IS1-D	0.83	0.078	0.2	17.0	0.13
10572927	PACE_MPLS	SS-06G	2/18/2022	P	mg/L	10572927012	SWWW0188-080121	IS1-N	0.05	0.05	0.1	10572927013	SWWW0189-080121	IS1-D	0.05	0.05	0.1	0.0	0
10572927	PACE_MPLS	SS-06G	2/19/2022	PbDis	mg/L	10572927012	SWWW0188-080121	IS1-N	6.5E-05	2.8E-05	0.0001	10572927013	SWWW0189-080121	IS1-D	0.000078	0.000028	0.0001	18.2	0.000013
10572927	PACE_MPLS	SS-06G	2/20/2022	PbTR	mg/L	10572927012	SWWW0188-080121	IS1-N	0.0014	2.8E-05	0.0001	10572927013	SWWW0189-080121	IS1-D	0.0017	0.000028	0.0001	19.4	
10572927	PACE_MPLS	SS-06G	2/21/2022	SO4	mg/L	10572927012	SWWW0188-080121	IS1-N	701	24.2	50	10572927013	SWWW0189-080121	IS1-D	651	24.2	50	7.4	
10572927	PACE_MPLS	SS-06G	2/22/2022	TDS	mg/L	10572927012	SWWW0188-080121	IS1-N	1200	5	10	10572927013	SWWW0189-080121	IS1-D	1190	5	10	0.8	
10572927	PACE_LEN	SS-06G	2/23/2022	TKN	mg/L	10572927012	SWWW0188-080121	IS1-N	0.48	0.48	0.5	10572927013	SWWW0189-080121	IS1-D	0.48	0.48	0.5	0.0	0
10572927	PACE_MPLS	SS-06G	2/24/2022	TSS	mg/L	10572927012	SWWW0188-080121	IS1-N	6.6	5	10	10572927013	SWWW0189-080121	IS1-D	10.1	5	10	41.9	3.5
10572927	PACE_MPLS	SS-06G	2/25/2022	ZnDis	mg/L	10572927012	SWWW0188-080121	IS1-N	0.023	0.002	0.005	10572927013	SWWW0189-080121	IS1-D	0.023	0.002	0.005	0.0	0
10572927	PACE_MPLS	SS-06G	2/26/2022	ZnTR	mg/L	10572927012	SWWW0188-080121	IS1-N	0.026	0.002	0.005	10572927013	SWWW0189-080121	IS1-D	0.027	0.002	0.005	3.8	
10572927	PACE_MPLS	SS-01-P	2/27/2022	AgDis	mg/L	10572927022	SWWW0198-080121	IS1-N	0.00016	0.00016	0.0005	10572927023	SWWW0199-080121	IS1-D	0.00016	0.00016	0.0005	0.0	0
10572927	PACE_MPLS	SS-01-P	2/28/2022	AgTR	mg/L	10572927022	SWWW0198-080121	IS1-N	0.001	0.00016	0.0005	10572927023	SWWW0199-080121	IS1-D	0.00081	0.00016	0.0005	21.0	0.00019
10572927	PACE_MPLS	SS-01-P	3/1/2022	AlDis	mg/L	10572927022	SWWW0198-080121	IS1-N	0.024	0.008	0.02	10572927023	SWWW0199-080121	IS1-D	0.022	0.008	0.02	8.7	0.002
10572927	PACE_MPLS	SS-01-P	3/2/2022	ALK_CaCO3	mg/L	10572927022	SWWW0198-080121	IS1-N	79	1.8	5	10572927023	SWWW0199-080121	IS1-D	75.8	1.8	5	4.1	
10572927	PACE_MPLS	SS-01-P	3/3/2022	AlTR	mg/L	10572927022	SWWW0198-080121	IS1-N	13.8	0.008	0.02	10572927023	SWWW0199-080121	IS1-D	13.6	0.008	0.02	1.5	
10572927	PACE_MPLS	SS-01-P	3/4/2022	AsDis	mg/L	10572927022	SWWW0198-080121	IS1-N	0.0033	8.3E-05	0.0005	10572927023	SWWW0199-080121	IS1-D	0.0034	0.000083	0.0005	3.0	
10572927	PACE_MPLS	SS-01-P	3/5/2022	AsTR	mg/L	10572927022	SWWW0198-080121	IS1-N	0.019	8.3E-05	0.0005	10572927023	SWWW0199-080121	IS1-D	0.019	0.000083	0.0005	0.0	
10572927	PACE_MPLS	SS-01-P	3/6/2022	CaDis	mg/L	10572927022	SWWW0198-080121	IS1-N	24.5	0.018	0.04	10572927023	SWWW0199-080121	IS1-D	25	0.018	0.04	2.0	
10572927	PACE_MPLS	SS-01-P	3/7/2022	CdDis	mg/L	10572927022	SWWW0198-080121	IS1-N	6.7E-05	1.6E-05	0.00008	10572927023	SWWW0199-080121	IS1-D	0.000066	0.000016	0.00008	1.5	1E-06
10572927	PACE_MPLS	SS-01-P	3/8/2022	CdTR	mg/L	10572927022	SWWW0198-080121	IS1-N	0.00096	1.6E-05	0.00008	10572927023	SWWW0199-080121	IS1-D	0.00092	0.000016	0.00008	4.3	
10572927	PACE_MPLS	SS-01-P	3/9/2022	CuDis	mg/L	10572927022	SWWW0198-080121	IS1-N	0.017	0.0005	0.001	10572927023	SWWW0199-080121	IS1-D	0.018	0.0005	0.001	5.7	
10572927	PACE_MPLS	SS-01-P	3/10/2022	CuTR	mg/L	10572927022	SWWW0198-080121	IS1-N	0.24	0.0005	0.001	10572927023	SWWW0199-080121	IS1-D	0.25	0.0005	0.001	4.1	
10572927	PACE_LEN	SS-01-P	3/11/2022	DOC	mg/L	10572927022	SWWW0198-080121	IS1-N	16	3	10	10572927023	SWWW0199-080121	IS1-D	15.7	3	10	1.9	0.3
10572927	PACE_MPLS	SS-01-P	3/12/2022	FeDis	mg/L	10572927022	SWWW0198-080121	IS1-N	0.069	0.012	0.05	10572927023	SWWW0199-080121	IS1-D	0.059	0.012	0.05	15.6	0.01
10572927	PACE_MPLS	SS-01-P	3/13/2022	FeTR	mg/L	10572927022	SWWW0198-080121	IS1-N	15.9	0.012	0.05	10572927023	SWWW0199-080121	IS1-D	15.8	0.012	0.05	0.6	
10572927	PACE_MPLS	SS-01-P	3/14/2022	Hard	mg/L	10572927022	SWWW0198-080121	IS1-N	88.2	0.06	0.14	10572927023	SWWW0199-080121	IS1-D	90.5	0.06	0.14	2.6	
10572927	PACE_MPLS	SS-01-P	3/15/2022	HgDis	mg/L	10572927022	SWWW0198-080121	IS1-N	4.5E-05	4.5E-05	0.0002	10572927023	SWWW0199-080121	IS1-D	0.000045	0.000045	0.0002	0.0	0
10572927	PACE_MPLS	SS-01-P	3/16/2022	HgTR	mg/L	10572927022	SWWW0198-080121	IS1-N	5.4E-05	4.5E-05	0.0002	10572927023	SWWW0199-080121	IS1-D	0.000056	0.000045	0.0002	3.6	0.000002
10572927	PACE_MPLS	SS-01-P	3/17/2022	MgDis	mg/L	10572927022	SWWW0198-080121	IS1-N	6.6	0.0034	0.01	10572927023	SWWW0199-080121	IS1-D	6.8	0.0034	0.01	3.0	
10572927	PACE_MPLS	SS-01-P	3/18/2022	MoDis	mg/L	10572927022	SWWW0198-080121	IS1-N	0.0041	9.4E-05	0.0005	10572927023	SWWW0199-080121	IS1-D	0.0041	0.000094	0.0005	0.0	
10572927	PACE_MPLS	SS-01-P	3/19/2022	MoTR	mg/L	10572927022	SWWW0198-080121	IS1-N	0.011	9.4E-05	0.0005	10572927023	SWWW0199-080121	IS1-D	0.011	0.000094	0.0005	0.0	
10572927	PACE_MPLS	SS-01-P	3/20/2022	NH3-N	mg/L	10572927022	SWWW0198-080121	IS1-N	0.066	0.03	0.1	10572927023	SWWW0199-080121	IS1-D	0.067	0.03	0.1	1.5	0.001
10572927	PACE_MPLS	SS-01-P	3/21/2022	NO3/NO2-N	mg/L	10572927022	SWWW0198-080121	IS1-N	0.79	0.078	0.2	10572927023	SWWW0199-080121	IS1-D	0.78	0.078	0.2	1.3	0.01
10572927	PACE_MPLS	SS-01-P	3/22/2022	P	mg/L	10572927022	SWWW0198-080121	IS1-N	1.1	0.05	0.1	10572927023	SWWW0199-080121	IS1-D	1.1	0.05	0.1	0.0	
10572927	PACE_MPLS	SS-01-P	3/23/2022	PbDis	mg/L	10572927022	SWWW0198-080121	IS1-N	0.00047	2.8E-05	0.0001	10572927023	SWWW0199-080121	IS1-D	0.00048	0.000028	0.0001	2.1	0.00001
10572927	PACE_MPLS	SS-01-P	3/24/2022	PbTR	mg/L	10572927022	SWWW0198-080121	IS1-N	0.082	2.8E-05	0.0001	10572927023	SWWW0199-080121	IS1-D	0.079	0.000028	0.0001	3.7	
10572927	PACE_MPLS	SS-01-P	3/25/2022	SO4	mg/L	10572927022	SWWW0198-080121	IS1-N	27.5	1.2	2.5	10572927023	SWWW0199-080121	IS1-D	27.9	1.2	2.5	1.4	
10572927	PACE_MPLS	SS-01-P	3/26/2022	TDS	mg/L	10572927022	SWWW0198-080121	IS1-N	184	5	10	10572927023	SWWW0199-080121	IS1-D	175	5	10	5.0	

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10572927	PACE_LEN	SS-01-P	3/27/2022	TKN	mg/L	10572927022	SWWW0198-080121	IS1-N	5.2	0.48	0.5	10572927023	SWWW0199-080121	IS1-D	5.6	0.48	0.5	7.4	
10572927	PACE_MPLS	SS-01-P	3/28/2022	TSS	mg/L	10572927022	SWWW0198-080121	IS1-N	317	5	10	10572927023	SWWW0199-080121	IS1-D	545	5	10	52.9	
10572927	PACE_MPLS	SS-01-P	3/29/2022	ZnDis	mg/L	10572927022	SWWW0198-080121	IS1-N	0.022	0.002	0.005	10572927023	SWWW0199-080121	IS1-D	0.023	0.002	0.005	4.4	0.001
10572927	PACE_MPLS	SS-01-P	3/30/2022	ZnTR	mg/L	10572927022	SWWW0198-080121	IS1-N	0.41	0.002	0.005	10572927023	SWWW0199-080121	IS1-D	0.4	0.002	0.005	2.5	
10574117	PACE_MPLS	SS-06G	3/31/2022	AgDis	mg/L	10574117012	SWWW0232-080821	IS1-N	0.00016	0.00016	0.0005	10574117013	SWWW0233-080821	IS1-D	0.00016	0.00016	0.0005	0.0	0
10574117	PACE_MPLS	SS-06G	4/1/2022	AgTR	mg/L	10574117012	SWWW0232-080821	IS1-N	0.00016	0.00016	0.0005	10574117013	SWWW0233-080821	IS1-D	0.00016	0.00016	0.0005	0.0	0
10574117	PACE_MPLS	SS-06G	4/2/2022	AlDis	mg/L	10574117012	SWWW0232-080821	IS1-N	0.012	0.008	0.02	10574117013	SWWW0233-080821	IS1-D	0.013	0.008	0.02	8.0	0.001
10574117	PACE_MPLS	SS-06G	4/3/2022	ALK_CaCO3	mg/L	10574117012	SWWW0232-080821	IS1-N	59.7	1.8	5	10574117013	SWWW0233-080821	IS1-D	60.1	1.8	5	0.7	
10574117	PACE_MPLS	SS-06G	4/4/2022	AlTR	mg/L	10574117012	SWWW0232-080821	IS1-N	0.4	0.008	0.02	10574117013	SWWW0233-080821	IS1-D	0.37	0.008	0.02	7.8	
10574117	PACE_MPLS	SS-06G	4/5/2022	AsDis	mg/L	10574117012	SWWW0232-080821	IS1-N	0.0027	8.3E-05	0.0005	10574117013	SWWW0233-080821	IS1-D	0.0027	0.000083	0.0005	0.0	
10574117	PACE_MPLS	SS-06G	4/6/2022	AsTR	mg/L	10574117012	SWWW0232-080821	IS1-N	0.004	8.3E-05	0.0005	10574117013	SWWW0233-080821	IS1-D	0.0038	0.000083	0.0005	5.1	
10574117	PACE_MPLS	SS-06G	4/7/2022	CaDis	mg/L	10574117012	SWWW0232-080821	IS1-N	210	0.36	0.8	10574117013	SWWW0233-080821	IS1-D	210	0.36	0.8	0.0	
10574117	PACE_MPLS	SS-06G	4/8/2022	CdDis	mg/L	10574117012	SWWW0232-080821	IS1-N	5.4E-05	1.6E-05	0.00008	10574117013	SWWW0233-080821	IS1-D	0.000057	0.000016	0.00008	5.4	3E-06
10574117	PACE_MPLS	SS-06G	4/9/2022	CdTR	mg/L	10574117012	SWWW0232-080821	IS1-N	0.00016	1.6E-05	0.00008	10574117013	SWWW0233-080821	IS1-D	0.00014	0.000016	0.00008	13.3	0.00002
10574117	PACE_MPLS	SS-06G	4/10/2022	CuDis	mg/L	10574117012	SWWW0232-080821	IS1-N	0.0033	0.0005	0.001	10574117013	SWWW0233-080821	IS1-D	0.0034	0.0005	0.001	3.0	1E-04
10574117	PACE_MPLS	SS-06G	4/11/2022	CuTR	mg/L	10574117012	SWWW0232-080821	IS1-N	0.014	0.0005	0.001	10574117013	SWWW0233-080821	IS1-D	0.013	0.0005	0.001	7.4	
10574117	PACE_MPLS	SS-06G	4/12/2022	FeDis	mg/L	10574117012	SWWW0232-080821	IS1-N	0.012	0.012	0.05	10574117013	SWWW0233-080821	IS1-D	0.012	0.012	0.05	0.0	0
10574117	PACE_MPLS	SS-06G	4/13/2022	FeTR	mg/L	10574117012	SWWW0232-080821	IS1-N	0.61	0.012	0.05	10574117013	SWWW0233-080821	IS1-D	0.58	0.012	0.05	5.0	
10574117	PACE_MPLS	SS-06G	4/14/2022	Hard	mg/L	10574117012	SWWW0232-080821	IS1-N	558	1.2	2.8	10574117013	SWWW0233-080821	IS1-D	558	1.2	2.8	0.0	
10574117	PACE_MPLS	SS-06G	4/15/2022	HgDis	mg/L	10574117012	SWWW0232-080821	IS1-N	4.5E-05	4.5E-05	0.0002	10574117013	SWWW0233-080821	IS1-D	0.000045	0.000045	0.0002	0.0	0
10574117	PACE_MPLS	SS-06G	4/16/2022	HgTR	mg/L	10574117012	SWWW0232-080821	IS1-N	4.5E-05	4.5E-05	0.0002	10574117013	SWWW0233-080821	IS1-D	0.000045	0.000045	0.0002	0.0	0
10574117	PACE_MPLS	SS-06G	4/17/2022	MgDis	mg/L	10574117012	SWWW0232-080821	IS1-N	8	0.0034	0.01	10574117013	SWWW0233-080821	IS1-D	8.1	0.0034	0.01	1.2	
10574117	PACE_MPLS	SS-06G	4/18/2022	MoDis	mg/L	10574117012	SWWW0232-080821	IS1-N	0.31	9.4E-05	0.0005	10574117013	SWWW0233-080821	IS1-D	0.32	0.000094	0.0005	3.2	
10574117	PACE_MPLS	SS-06G	4/19/2022	MoTR	mg/L	10574117012	SWWW0232-080821	IS1-N	0.31	9.4E-05	0.0005	10574117013	SWWW0233-080821	IS1-D	0.3	0.000094	0.0005	3.3	
10574117	PACE_MPLS	SS-06G	4/20/2022	NO3/NO2-N	mg/L	10574117012	SWWW0232-080821	IS1-N	0.96	0.078	0.2	10574117013	SWWW0233-080821	IS1-D	0.99	0.078	0.2	3.1	0.03
10574117	PACE_MPLS	SS-06G	4/21/2022	PbDis	mg/L	10574117012	SWWW0232-080821	IS1-N	2.8E-05	2.8E-05	0.0001	10574117013	SWWW0233-080821	IS1-D	0.000033	0.000028	0.0001	16.4	0.000005
10574117	PACE_MPLS	SS-06G	4/22/2022	PbTR	mg/L	10574117012	SWWW0232-080821	IS1-N	0.0071	2.8E-05	0.0001	10574117013	SWWW0233-080821	IS1-D	0.0074	0.000028	0.0001	4.1	
10574117	PACE_MPLS	SS-06G	4/23/2022	SO4	mg/L	10574117012	SWWW0232-080821	IS1-N	508	30.2	62.5	10574117013	SWWW0233-080821	IS1-D	504	30.2	62.5	0.8	
10574117	PACE_MPLS	SS-06G	4/24/2022	TDS	mg/L	10574117012	SWWW0232-080821	IS1-N	929	5	10	10574117013	SWWW0233-080821	IS1-D	925	5	10	0.4	
10574117	PACE_MPLS	SS-06G	4/25/2022	TSS	mg/L	10574117012	SWWW0232-080821	IS1-N	26.7	5	10	10574117013	SWWW0233-080821	IS1-D	25	5	10	6.6	1.7
10574117	PACE_MPLS	SS-06G	4/26/2022	ZnDis	mg/L	10574117012	SWWW0232-080821	IS1-N	0.017	0.002	0.005	10574117013	SWWW0233-080821	IS1-D	0.017	0.002	0.005	0.0	0
10574117	PACE_MPLS	SS-06G	4/27/2022	ZnTR	mg/L	10574117012	SWWW0232-080821	IS1-N	0.038	0.002	0.005	10574117013	SWWW0233-080821	IS1-D	0.036	0.002	0.005	5.4	
10574117	PACE_MPLS	SS-05	4/28/2022	AgDis	mg/L	10574117034	SWWW0254-080821	IS1-N	0.00016	0.00016	0.0005	10574117035	SWWW0255-080821	IS1-D	0.00016	0.00016	0.0005	0.0	0
10574117	PACE_MPLS	SS-05	4/29/2022	AgTR	mg/L	10574117034	SWWW0254-080821	IS1-N	0.00021	0.00016	0.0005	10574117035	SWWW0255-080821	IS1-D	0.00023	0.00016	0.0005	9.1	0.00002
10574117	PACE_MPLS	SS-05	4/30/2022	AlDis	mg/L	10574117034	SWWW0254-080821	IS1-N	0.021	0.008	0.02	10574117035	SWWW0255-080821	IS1-D	0.021	0.008	0.02	0.0	0
10574117	PACE_MPLS	SS-05	5/1/2022	ALK_CaCO3	mg/L	10574117034	SWWW0254-080821	IS1-N	51	1.8	5	10574117035	SWWW0255-080821	IS1-D	52.5	1.8	5	2.9	
10574117	PACE_MPLS	SS-05	5/2/2022	AlTR	mg/L	10574117034	SWWW0254-080821	IS1-N	1.4	0.008	0.02	10574117035	SWWW0255-080821	IS1-D	1.6	0.008	0.02	13.3	
10574117	PACE_MPLS	SS-05	5/3/2022	AsDis	mg/L	10574117034	SWWW0254-080821	IS1-N	0.0036	8.3E-05	0.0005	10574117035	SWWW0255-080821	IS1-D	0.0036	0.000083	0.0005	0.0	
10574117	PACE_MPLS	SS-05	5/4/2022	AsTR	mg/L	10574117034	SWWW0254-080821	IS1-N	0.0065	8.3E-05	0.0005	10574117035	SWWW0255-080821	IS1-D	0.0067	0.000083	0.0005	3.0	
10574117	PACE_MPLS	SS-05	5/5/2022	CaDis	mg/L	10574117034	SWWW0254-080821	IS1-N	169	0.36	0.8	10574117035	SWWW0255-080821	IS1-D	166	0.36	0.8	1.8	
10574117	PACE_MPLS	SS-05	5/6/2022	CdDis	mg/L	10574117034	SWWW0254-080821	IS1-N	0.00011	1.6E-05	0.00008	10574117035	SWWW0255-080821	IS1-D	0.00011	0.000016	0.00008	0.0	0
10574117	PACE_MPLS	SS-05	5/7/2022	CdTR	mg/L	10574117034	SWWW0254-080821	IS1-N	0.0003	1.6E-05	0.00008	10574117035	SWWW0255-080821	IS1-D	0.00037	0.000016	0.00008	20.9	0.00007
10574117	PACE_MPLS	SS-05	5/8/2022	CuDis	mg/L	10574117034	SWWW0254-080821	IS1-N	0.0052	0.0005	0.001	10574117035	SWWW0255-080821	IS1-D	0.0051	0.0005	0.001	1.9	
10574117	PACE_MPLS	SS-05	5/9/2022	CuTR	mg/L	10574117034	SWWW0254-080821	IS1-N	0.029	0.0005	0.001	10574117035	SWWW0255-080821	IS1-D	0.034	0.0005	0.001	15.9	

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10574117	PACE_MPLS	SS-05	5/10/2022	FeDis	mg/L	10574117034	SWWW0254-080821	IS1-N	0.068	0.012	0.05	10574117035	SWWW0255-080821	IS1-D	0.066	0.012	0.05	3.0	0.002
10574117	PACE_MPLS	SS-05	5/11/2022	FeTR	mg/L	10574117034	SWWW0254-080821	IS1-N	1.4	0.012	0.05	10574117035	SWWW0255-080821	IS1-D	1.7	0.012	0.05	19.4	
10574117	PACE_MPLS	SS-05	5/12/2022	Hard	mg/L	10574117034	SWWW0254-080821	IS1-N	448	1.2	2.8	10574117035	SWWW0255-080821	IS1-D	439	1.2	2.8	2.0	
10574117	PACE_MPLS	SS-05	5/13/2022	HgDis	mg/L	10574117034	SWWW0254-080821	IS1-N	4.5E-05	4.5E-05	0.0002	10574117035	SWWW0255-080821	IS1-D	0.000045	0.000045	0.0002	0.0	0
10574117	PACE_MPLS	SS-05	5/14/2022	HgTR	mg/L	10574117034	SWWW0254-080821	IS1-N	4.5E-05	4.5E-05	0.0002	10574117035	SWWW0255-080821	IS1-D	0.000045	0.000045	0.0002	0.0	0
10574117	PACE_MPLS	SS-05	5/15/2022	MgDis	mg/L	10574117034	SWWW0254-080821	IS1-N	6.1	0.0034	0.01	10574117035	SWWW0255-080821	IS1-D	6	0.0034	0.01	1.7	
10574117	PACE_MPLS	SS-05	5/16/2022	MoDis	mg/L	10574117034	SWWW0254-080821	IS1-N	0.25	9.4E-05	0.0005	10574117035	SWWW0255-080821	IS1-D	0.25	0.000094	0.0005	0.0	
10574117	PACE_MPLS	SS-05	5/17/2022	MoTR	mg/L	10574117034	SWWW0254-080821	IS1-N	0.24	9.4E-05	0.0005	10574117035	SWWW0255-080821	IS1-D	0.26	0.000094	0.0005	8.0	
10574117	PACE_MPLS	SS-05	5/18/2022	NO3/NO2-N	mg/L	10574117034	SWWW0254-080821	IS1-N	0.53	0.078	0.2	10574117035	SWWW0255-080821	IS1-D	0.53	0.078	0.2	0.0	0
10574117	PACE_MPLS	SS-05	5/19/2022	PbDis	mg/L	10574117034	SWWW0254-080821	IS1-N	0.00075	2.8E-05	0.0001	10574117035	SWWW0255-080821	IS1-D	0.00077	0.000028	0.0001	2.6	
10574117	PACE_MPLS	SS-05	5/20/2022	PbTR	mg/L	10574117034	SWWW0254-080821	IS1-N	0.026	2.8E-05	0.0001	10574117035	SWWW0255-080821	IS1-D	0.029	0.000028	0.0001	10.9	
10574117	PACE_MPLS	SS-05	5/21/2022	SO4	mg/L	10574117034	SWWW0254-080821	IS1-N	255	12.1	25	10574117035	SWWW0255-080821	IS1-D	240	12.1	25	6.1	
10574117	PACE_MPLS	SS-05	5/22/2022	TDS	mg/L	10574117034	SWWW0254-080821	IS1-N	475	5	10	10574117035	SWWW0255-080821	IS1-D	447	5	10	6.1	
10574117	PACE_MPLS	SS-05	5/23/2022	TSS	mg/L	10574117034	SWWW0254-080821	IS1-N	515	5	10	10574117035	SWWW0255-080821	IS1-D	490	5	10	5.0	
10574117	PACE_MPLS	SS-05	5/24/2022	ZnDis	mg/L	10574117034	SWWW0254-080821	IS1-N	0.043	0.002	0.005	10574117035	SWWW0255-080821	IS1-D	0.042	0.002	0.005	2.4	
10574117	PACE_MPLS	SS-05	5/25/2022	ZnTR	mg/L	10574117034	SWWW0254-080821	IS1-N	0.11	0.002	0.005	10574117035	SWWW0255-080821	IS1-D	0.12	0.002	0.005	8.7	
10575368	PACE_MPLS	SS-06G	5/26/2022	AgDis	mg/L	10575368008	SWWW0272-081821	IS1-N	0.00016	0.00016	0.0005	10575368009	SWWW0273-081821	IS1-D	0.00016	0.00016	0.0005	0.0	0
10575368	PACE_MPLS	SS-06G	5/27/2022	AgTR	mg/L	10575368008	SWWW0272-081821	IS1-N	0.00018	0.00016	0.0005	10575368009	SWWW0273-081821	IS1-D	0.0003	0.00016	0.0005	50.0	0.00012
10575368	PACE_MPLS	SS-06G	5/28/2022	AlDis	mg/L	10575368008	SWWW0272-081821	IS1-N	0.0095	0.008	0.02	10575368009	SWWW0273-081821	IS1-D	0.0097	0.008	0.02	2.1	0.0002
10575368	PACE_MPLS	SS-06G	5/29/2022	ALK_CaCO3	mg/L	10575368008	SWWW0272-081821	IS1-N	78	1.8	5	10575368009	SWWW0273-081821	IS1-D	76.5	1.8	5	1.9	
10575368	PACE_MPLS	SS-06G	5/30/2022	AlTR	mg/L	10575368008	SWWW0272-081821	IS1-N	1	0.008	0.02	10575368009	SWWW0273-081821	IS1-D	1.1	0.008	0.02	9.5	
10575368	PACE_MPLS	SS-06G	5/31/2022	AsDis	mg/L	10575368008	SWWW0272-081821	IS1-N	0.0027	8.3E-05	0.0005	10575368009	SWWW0273-081821	IS1-D	0.003	0.000083	0.0005	10.5	
10575368	PACE_MPLS	SS-06G	6/1/2022	AsTR	mg/L	10575368008	SWWW0272-081821	IS1-N	0.0065	8.3E-05	0.0005	10575368009	SWWW0273-081821	IS1-D	0.0073	0.000083	0.0005	11.6	
10575368	PACE_MPLS	SS-06G	6/2/2022	CaDis	mg/L	10575368008	SWWW0272-081821	IS1-N	206	0.36	0.8	10575368009	SWWW0273-081821	IS1-D	214	0.36	0.8	3.8	
10575368	PACE_MPLS	SS-06G	6/3/2022	CdDis	mg/L	10575368008	SWWW0272-081821	IS1-N	7.6E-05	1.6E-05	0.00008	10575368009	SWWW0273-081821	IS1-D	0.000079	0.000016	0.00008	3.9	3E-06
10575368	PACE_MPLS	SS-06G	6/4/2022	CdTR	mg/L	10575368008	SWWW0272-081821	IS1-N	0.00032	1.6E-05	0.00008	10575368009	SWWW0273-081821	IS1-D	0.00034	0.000016	0.00008	6.1	0.00002
10575368	PACE_MPLS	SS-06G	6/5/2022	CuDis	mg/L	10575368008	SWWW0272-081821	IS1-N	0.0042	0.0005	0.001	10575368009	SWWW0273-081821	IS1-D	0.0044	0.0005	0.001	4.7	0.0002
10575368	PACE_MPLS	SS-06G	6/6/2022	CuTR	mg/L	10575368008	SWWW0272-081821	IS1-N	0.036	0.0005	0.001	10575368009	SWWW0273-081821	IS1-D	0.041	0.0005	0.001	13.0	
10575368	PACE_MPLS	SS-06G	6/7/2022	FeDis	mg/L	10575368008	SWWW0272-081821	IS1-N	0.017	0.012	0.05	10575368009	SWWW0273-081821	IS1-D	0.021	0.012	0.05	21.1	0.004
10575368	PACE_MPLS	SS-06G	6/8/2022	FeTR	mg/L	10575368008	SWWW0272-081821	IS1-N	1.5	0.012	0.05	10575368009	SWWW0273-081821	IS1-D	1.6	0.012	0.05	6.5	
10575368	PACE_MPLS	SS-06G	6/9/2022	Hard	mg/L	10575368008	SWWW0272-081821	IS1-N	549	1.2	2.8	10575368009	SWWW0273-081821	IS1-D	572	1.2	2.8	4.1	
10575368	PACE_MPLS	SS-06G	6/10/2022	HgDis	mg/L	10575368008	SWWW0272-081821	IS1-N	4.5E-05	4.5E-05	0.0002	10575368009	SWWW0273-081821	IS1-D	0.000045	0.000045	0.0002	0.0	0
10575368	PACE_MPLS	SS-06G	6/11/2022	HgTR	mg/L	10575368008	SWWW0272-081821	IS1-N	4.5E-05	4.5E-05	0.0002	10575368009	SWWW0273-081821	IS1-D	0.000045	0.000045	0.0002	0.0	0
10575368	PACE_MPLS	SS-06G	6/12/2022	MgDis	mg/L	10575368008	SWWW0272-081821	IS1-N	8.2	0.0034	0.01	10575368009	SWWW0273-081821	IS1-D	8.8	0.0034	0.01	7.1	
10575368	PACE_MPLS	SS-06G	6/13/2022	MoDis	mg/L	10575368008	SWWW0272-081821	IS1-N	0.27	9.4E-05	0.0005	10575368009	SWWW0273-081821	IS1-D	0.29	0.000094	0.0005	7.1	
10575368	PACE_MPLS	SS-06G	6/14/2022	MoTR	mg/L	10575368008	SWWW0272-081821	IS1-N	0.31	9.4E-05	0.0005	10575368009	SWWW0273-081821	IS1-D	0.33	0.000094	0.0005	6.3	
10575368	PACE_MPLS	SS-06G	6/15/2022	NO3/NO2-N	mg/L	10575368008	SWWW0272-081821	IS1-N	1.2	0.078	0.2	10575368009	SWWW0273-081821	IS1-D	1.2	0.078	0.2	0.0	
10575368	PACE_MPLS	SS-06G	6/16/2022	PbDis	mg/L	10575368008	SWWW0272-081821	IS1-N	7.2E-05	2.8E-05	0.0001	10575368009	SWWW0273-081821	IS1-D	0.00008	0.000028	0.0001	10.5	0.000008
10575368	PACE_MPLS	SS-06G	6/17/2022	PbTR	mg/L	10575368008	SWWW0272-081821	IS1-N	0.017	2.8E-05	0.0001	10575368009	SWWW0273-081821	IS1-D	0.019	0.000028	0.0001	11.1	
10575368	PACE_MPLS	SS-06G	6/18/2022	SO4	mg/L	10575368008	SWWW0272-081821	IS1-N	542	24.2	50	10575368009	SWWW0273-081821	IS1-D	510	24.2	50	6.1	
10575368	PACE_MPLS	SS-06G	6/19/2022	TDS	mg/L	10575368008	SWWW0272-081821	IS1-N	944	10	20	10575368009	SWWW0273-081821	IS1-D	932	10	20	1.3	
10575368	PACE_MPLS	SS-06G	6/20/2022	TSS	mg/L	10575368008	SWWW0272-081821	IS1-N	66.2	5	10	10575368009	SWWW0273-081821	IS1-D	36.4	5	10	58.1	29.8
10575368	PACE_MPLS	SS-06G	6/21/2022	ZnDis	mg/L	10575368008	SWWW0272-081821	IS1-N	0.016	0.002	0.005	10575368009	SWWW0273-081821	IS1-D	0.017	0.002	0.005	6.1	0.001
10575368	PACE_MPLS	SS-06G	6/22/2022	ZnTR	mg/L	10575368008	SWWW0272-081821	IS1-N	0.089	0.002	0.005	10575368009	SWWW0273-081821	IS1-D	0.1	0.002	0.005	11.6	

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10575368	PACE_MPLS	SS-04	6/23/2022	AgDis	mg/L	10575368018	SWWW0282-081821	IS1-N	0.00016	0.00016	0.0005	10575368019	SWWW0283-081821	IS1-D	0.00016	0.00016	0.0005	0.0	0
10575368	PACE_MPLS	SS-04	6/24/2022	AgTR	mg/L	10575368018	SWWW0282-081821	IS1-N	0.00016	0.00016	0.0005	10575368019	SWWW0283-081821	IS1-D	0.00016	0.00016	0.0005	0.0	0
10575368	PACE_MPLS	SS-04	6/25/2022	AlDis	mg/L	10575368018	SWWW0282-081821	IS1-N	0.008	0.008	0.02	10575368019	SWWW0283-081821	IS1-D	0.008	0.008	0.02	0.0	0
10575368	PACE_MPLS	SS-04	6/26/2022	ALK_CaCO3	mg/L	10575368018	SWWW0282-081821	IS1-N	111	1.8	5	10575368019	SWWW0283-081821	IS1-D	112	1.8	5	0.9	
10575368	PACE_MPLS	SS-04	6/27/2022	AlTR	mg/L	10575368018	SWWW0282-081821	IS1-N	0.063	0.008	0.02	10575368019	SWWW0283-081821	IS1-D	0.06	0.008	0.02	4.9	0.003
10575368	PACE_MPLS	SS-04	6/28/2022	AsDis	mg/L	10575368018	SWWW0282-081821	IS1-N	0.0025	8.3E-05	0.0005	10575368019	SWWW0283-081821	IS1-D	0.0026	0.000083	0.0005	3.9	
10575368	PACE_MPLS	SS-04	6/29/2022	AsTR	mg/L	10575368018	SWWW0282-081821	IS1-N	0.0032	8.3E-05	0.0005	10575368019	SWWW0283-081821	IS1-D	0.0032	0.000083	0.0005	0.0	
10575368	PACE_MPLS	SS-04	6/30/2022	CaDis	mg/L	10575368018	SWWW0282-081821	IS1-N	35.3	0.018	0.04	10575368019	SWWW0283-081821	IS1-D	36.8	0.018	0.04	4.2	
10575368	PACE_MPLS	SS-04	7/1/2022	CdDis	mg/L	10575368018	SWWW0282-081821	IS1-N	2.6E-05	1.6E-05	0.00008	10575368019	SWWW0283-081821	IS1-D	0.000024	0.000016	0.00008	8.0	0.000002
10575368	PACE_MPLS	SS-04	7/2/2022	CdTR	mg/L	10575368018	SWWW0282-081821	IS1-N	4.2E-05	1.6E-05	0.00008	10575368019	SWWW0283-081821	IS1-D	0.000067	0.000016	0.00008	45.9	0.000025
10575368	PACE_MPLS	SS-04	7/3/2022	CuDis	mg/L	10575368018	SWWW0282-081821	IS1-N	0.0036	0.0005	0.001	10575368019	SWWW0283-081821	IS1-D	0.0038	0.0005	0.001	5.4	0.0002
10575368	PACE_MPLS	SS-04	7/4/2022	CuTR	mg/L	10575368018	SWWW0282-081821	IS1-N	0.0066	0.0005	0.001	10575368019	SWWW0283-081821	IS1-D	0.0067	0.0005	0.001	1.5	
10575368	PACE_MPLS	SS-04	7/5/2022	FeDis	mg/L	10575368018	SWWW0282-081821	IS1-N	0.049	0.012	0.05	10575368019	SWWW0283-081821	IS1-D	0.054	0.012	0.05	9.7	0.005
10575368	PACE_MPLS	SS-04	7/6/2022	FeTR	mg/L	10575368018	SWWW0282-081821	IS1-N	0.21	0.012	0.05	10575368019	SWWW0283-081821	IS1-D	0.21	0.012	0.05	0.0	0
10575368	PACE_MPLS	SS-04	7/7/2022	Hard	mg/L	10575368018	SWWW0282-081821	IS1-N	121	0.06	0.14	10575368019	SWWW0283-081821	IS1-D	127	0.06	0.14	4.8	
10575368	PACE_MPLS	SS-04	7/8/2022	HgDis	mg/L	10575368018	SWWW0282-081821	IS1-N	4.5E-05	4.5E-05	0.0002	10575368019	SWWW0283-081821	IS1-D	0.000045	0.000045	0.0002	0.0	0
10575368	PACE_MPLS	SS-04	7/9/2022	HgTR	mg/L	10575368018	SWWW0282-081821	IS1-N	4.5E-05	4.5E-05	0.0002	10575368019	SWWW0283-081821	IS1-D	0.000045	0.000045	0.0002	0.0	0
10575368	PACE_MPLS	SS-04	7/10/2022	MgDis	mg/L	10575368018	SWWW0282-081821	IS1-N	8	0.0034	0.01	10575368019	SWWW0283-081821	IS1-D	8.5	0.0034	0.01	6.1	
10575368	PACE_MPLS	SS-04	7/11/2022	MoDis	mg/L	10575368018	SWWW0282-081821	IS1-N	0.0056	9.4E-05	0.0005	10575368019	SWWW0283-081821	IS1-D	0.0055	0.000094	0.0005	1.8	
10575368	PACE_MPLS	SS-04	7/12/2022	MoTR	mg/L	10575368018	SWWW0282-081821	IS1-N	0.0062	9.4E-05	0.0005	10575368019	SWWW0283-081821	IS1-D	0.0064	0.000094	0.0005	3.2	
10575368	PACE_MPLS	SS-04	7/13/2022	NO3/NO2-N	mg/L	10575368018	SWWW0282-081821	IS1-N	1.3	0.078	0.2	10575368019	SWWW0283-081821	IS1-D	1.3	0.078	0.2	0.0	
10575368	PACE_MPLS	SS-04	7/14/2022	PbDis	mg/L	10575368018	SWWW0282-081821	IS1-N	9.1E-05	2.8E-05	0.0001	10575368019	SWWW0283-081821	IS1-D	0.000066	0.000028	0.0001	31.9	0.000025
10575368	PACE_MPLS	SS-04	7/15/2022	PbTR	mg/L	10575368018	SWWW0282-081821	IS1-N	0.0005	2.8E-05	0.0001	10575368019	SWWW0283-081821	IS1-D	0.00052	0.000028	0.0001	3.9	
10575368	PACE_MPLS	SS-04	7/16/2022	SO4	mg/L	10575368018	SWWW0282-081821	IS1-N	37.1	1.2	2.5	10575368019	SWWW0283-081821	IS1-D	36.7	1.2	2.5	1.1	
10575368	PACE_MPLS	SS-04	7/17/2022	TDS	mg/L	10575368018	SWWW0282-081821	IS1-N	232	5	10	10575368019	SWWW0283-081821	IS1-D	237	5	10	2.1	
10575368	PACE_MPLS	SS-04	7/18/2022	TSS	mg/L	10575368018	SWWW0282-081821	IS1-N	5	5	10	10575368019	SWWW0283-081821	IS1-D	5	5	10	0.0	0
10575368	PACE_MPLS	SS-04	7/19/2022	ZnDis	mg/L	10575368018	SWWW0282-081821	IS1-N	0.013	0.002	0.005	10575368019	SWWW0283-081821	IS1-D	0.014	0.002	0.005	7.4	0.001
10575368	PACE_MPLS	SS-04	7/20/2022	ZnTR	mg/L	10575368018	SWWW0282-081821	IS1-N	0.015	0.002	0.005	10575368019	SWWW0283-081821	IS1-D	0.016	0.002	0.005	6.5	0.001
10576060	PACE_MPLS	SS-06G	7/21/2022	AgDis	mg/L	10576060012	SWWW0304-082121	IS1-N	0.00016	0.00016	0.0005	10576060013	SWWW0305-082121	IS1-D	0.00016	0.00016	0.0005	0.0	0
10576060	PACE_MPLS	SS-06G	7/22/2022	AgTR	mg/L	10576060012	SWWW0304-082121	IS1-N	0.00023	0.00016	0.0005	10576060013	SWWW0305-082121	IS1-D	0.00028	0.00016	0.0005	19.6	0.00005
10576060	PACE_MPLS	SS-06G	7/23/2022	AlDis	mg/L	10576060012	SWWW0304-082121	IS1-N	0.011	0.008	0.02	10576060013	SWWW0305-082121	IS1-D	0.011	0.008	0.02	0.0	0
10576060	PACE_MPLS	SS-06G	7/24/2022	ALK_CaCO3	mg/L	10576060012	SWWW0304-082121	IS1-N	57.6	1.8	5	10576060013	SWWW0305-082121	IS1-D	58	1.8	5	0.7	
10576060	PACE_MPLS	SS-06G	7/25/2022	AlTR	mg/L	10576060012	SWWW0304-082121	IS1-N	1.6	0.008	0.02	10576060013	SWWW0305-082121	IS1-D	1.8	0.008	0.02	11.8	
10576060	PACE_MPLS	SS-06G	7/26/2022	AsDis	mg/L	10576060012	SWWW0304-082121	IS1-N	0.003	8.3E-05	0.0005	10576060013	SWWW0305-082121	IS1-D	0.0033	0.000083	0.0005	9.5	
10576060	PACE_MPLS	SS-06G	7/27/2022	AsTR	mg/L	10576060012	SWWW0304-082121	IS1-N	0.0092	8.3E-05	0.0005	10576060013	SWWW0305-082121	IS1-D	0.0089	0.000083	0.0005	3.3	
10576060	PACE_MPLS	SS-06G	7/28/2022	CaDis	mg/L	10576060012	SWWW0304-082121	IS1-N	268	0.36	0.8	10576060013	SWWW0305-082121	IS1-D	280	0.36	0.8	4.4	
10576060	PACE_MPLS	SS-06G	7/29/2022	CdDis	mg/L	10576060012	SWWW0304-082121	IS1-N	0.00013	1.6E-05	0.00008	10576060013	SWWW0305-082121	IS1-D	0.00016	0.000016	0.00008	20.7	0.00003
10576060	PACE_MPLS	SS-06G	7/30/2022	CdTR	mg/L	10576060012	SWWW0304-082121	IS1-N	0.00039	1.6E-05	0.00008	10576060013	SWWW0305-082121	IS1-D	0.00038	0.000016	0.00008	2.6	1E-05
10576060	PACE_MPLS	SS-06G	7/31/2022	CuDis	mg/L	10576060012	SWWW0304-082121	IS1-N	0.0062	0.0005	0.001	10576060013	SWWW0305-082121	IS1-D	0.0061	0.0005	0.001	1.6	
10576060	PACE_MPLS	SS-06G	8/1/2022	CuTR	mg/L	10576060012	SWWW0304-082121	IS1-N	0.052	0.0005	0.001	10576060013	SWWW0305-082121	IS1-D	0.05	0.0005	0.001	3.9	
10576060	PACE_MPLS	SS-06G	8/2/2022	FeDis	mg/L	10576060012	SWWW0304-082121	IS1-N	0.012	0.012	0.05	10576060013	SWWW0305-082121	IS1-D	0.012	0.012	0.05	0.0	0
10576060	PACE_MPLS	SS-06G	8/3/2022	FeTR	mg/L	10576060012	SWWW0304-082121	IS1-N	2.2	0.012	0.05	10576060013	SWWW0305-082121	IS1-D	2.3	0.012	0.05	4.4	
10576060	PACE_MPLS	SS-06G	8/4/2022	Hard	mg/L	10576060012	SWWW0304-082121	IS1-N	699	1.2	2.8	10576060013	SWWW0305-082121	IS1-D	731	1.2	2.8	4.5	
10576060	PACE_MPLS	SS-06G	8/5/2022	HgDis	mg/L	10576060012	SWWW0304-082121	IS1-N	4.5E-05	4.5E-05	0.0002	10576060013	SWWW0305-082121	IS1-D	0.000045	0.000045	0.0002	0.0	0

Highlighted cells indicate field precision outside of criteria

Table A6a. BPSOU 2021 Wet Weather Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Sample Type	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Sample Type	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
10576060	PACE_MPLS	SS-06G	8/6/2022	HgTR	mg/L	10576060012	SWWW0304-082121	IS1-N	4.5E-05	4.5E-05	0.0002	10576060013	SWWW0305-082121	IS1-D	0.000045	0.000045	0.0002	0.0	0
10576060	PACE_MPLS	SS-06G	8/7/2022	MgDis	mg/L	10576060012	SWWW0304-082121	IS1-N	7.3	0.0034	0.01	10576060013	SWWW0305-082121	IS1-D	7.8	0.0034	0.01	6.6	
10576060	PACE_MPLS	SS-06G	8/8/2022	MoDis	mg/L	10576060012	SWWW0304-082121	IS1-N	0.4	9.4E-05	0.0005	10576060013	SWWW0305-082121	IS1-D	0.42	0.000094	0.0005	4.9	
10576060	PACE_MPLS	SS-06G	8/9/2022	MoTR	mg/L	10576060012	SWWW0304-082121	IS1-N	0.42	9.4E-05	0.0005	10576060013	SWWW0305-082121	IS1-D	0.42	0.000094	0.0005	0.0	
10576060	PACE_MPLS	SS-06G	8/10/2022	NO3/NO2-N	mg/L	10576060012	SWWW0304-082121	IS1-N	0.85	0.078	0.2	10576060013	SWWW0305-082121	IS1-D	0.98	0.078	0.2	14.2	0.13
10576060	PACE_MPLS	SS-06G	8/11/2022	PbDis	mg/L	10576060012	SWWW0304-082121	IS1-N	8.2E-05	2.8E-05	0.0001	10576060013	SWWW0305-082121	IS1-D	0.000065	0.000028	0.0001	23.1	0.000017
10576060	PACE_MPLS	SS-06G	8/12/2022	PbTR	mg/L	10576060012	SWWW0304-082121	IS1-N	0.029	2.8E-05	0.0001	10576060013	SWWW0305-082121	IS1-D	0.029	0.000028	0.0001	0.0	
10576060	PACE_MPLS	SS-06G	8/13/2022	SO4	mg/L	10576060012	SWWW0304-082121	IS1-N	651	24.2	50	10576060013	SWWW0305-082121	IS1-D	687	24.2	50	5.4	
10576060	PACE_MPLS	SS-06G	8/14/2022	TDS	mg/L	10576060012	SWWW0304-082121	IS1-N	1150	5	10	10576060013	SWWW0305-082121	IS1-D	1140	5	10	0.9	
10576060	PACE_MPLS	SS-06G	8/15/2022	TSS	mg/L	10576060012	SWWW0304-082121	IS1-N	79.4	5	10	10576060013	SWWW0305-082121	IS1-D	81	5	10	2.0	
10576060	PACE_MPLS	SS-06G	8/16/2022	ZnDis	mg/L	10576060012	SWWW0304-082121	IS1-N	0.025	0.002	0.005	10576060013	SWWW0305-082121	IS1-D	0.024	0.002	0.005	4.1	0.001
10576060	PACE_MPLS	SS-06G	8/17/2022	ZnTR	mg/L	10576060012	SWWW0304-082121	IS1-N	0.12	0.002	0.005	10576060013	SWWW0305-082121	IS1-D	0.11	0.002	0.005	8.7	
10576060	PACE_MPLS	SS-05	8/18/2022	AgDis	mg/L	10576060034	SWWW0326-082121	IS1-N	0.00016	0.00016	0.0005	10576060035	SWWW0327-082121	IS1-D	0.00016	0.00016	0.0005	0.0	0
10576060	PACE_MPLS	SS-05	8/19/2022	AgTR	mg/L	10576060034	SWWW0326-082121	IS1-N	0.00016	0.00016	0.0005	10576060035	SWWW0327-082121	IS1-D	0.00016	0.00016	0.0005	0.0	0
10576060	PACE_MPLS	SS-05	8/20/2022	AlDis	mg/L	10576060034	SWWW0326-082121	IS1-N	0.017	0.008	0.02	10576060035	SWWW0327-082121	IS1-D	0.018	0.008	0.02	5.7	0.001
10576060	PACE_MPLS	SS-05	8/21/2022	ALK_CaCO3	mg/L	10576060034	SWWW0326-082121	IS1-N	61.1	1.8	5	10576060035	SWWW0327-082121	IS1-D	61.8	1.8	5	1.1	
10576060	PACE_MPLS	SS-05	8/22/2022	AlTR	mg/L	10576060034	SWWW0326-082121	IS1-N	0.17	0.008	0.02	10576060035	SWWW0327-082121	IS1-D	0.17	0.008	0.02	0.0	
10576060	PACE_MPLS	SS-05	8/23/2022	AsDis	mg/L	10576060034	SWWW0326-082121	IS1-N	0.003	8.3E-05	0.0005	10576060035	SWWW0327-082121	IS1-D	0.0031	0.000083	0.0005	3.3	
10576060	PACE_MPLS	SS-05	8/24/2022	AsTR	mg/L	10576060034	SWWW0326-082121	IS1-N	0.004	8.3E-05	0.0005	10576060035	SWWW0327-082121	IS1-D	0.004	0.000083	0.0005	0.0	
10576060	PACE_MPLS	SS-05	8/25/2022	CaDis	mg/L	10576060034	SWWW0326-082121	IS1-N	253	0.18	0.4	10576060035	SWWW0327-082121	IS1-D	251	0.18	0.4	0.8	
10576060	PACE_MPLS	SS-05	8/26/2022	CdDis	mg/L	10576060034	SWWW0326-082121	IS1-N	1.6E-05	1.6E-05	0.00008	10576060035	SWWW0327-082121	IS1-D	0.000017	0.000016	0.00008	6.1	0.000001
10576060	PACE_MPLS	SS-05	8/27/2022	CdTR	mg/L	10576060034	SWWW0326-082121	IS1-N	6.4E-05	1.6E-05	0.00008	10576060035	SWWW0327-082121	IS1-D	0.00007	0.000016	0.00008	9.0	0.000006
10576060	PACE_MPLS	SS-05	8/28/2022	CuDis	mg/L	10576060034	SWWW0326-082121	IS1-N	0.0017	0.0005	0.001	10576060035	SWWW0327-082121	IS1-D	0.0018	0.0005	0.001	5.7	0.0001
10576060	PACE_MPLS	SS-05	8/29/2022	CuTR	mg/L	10576060034	SWWW0326-082121	IS1-N	0.0074	0.0005	0.001	10576060035	SWWW0327-082121	IS1-D	0.006	0.0005	0.001	20.9	
10576060	PACE_MPLS	SS-05	8/30/2022	FeDis	mg/L	10576060034	SWWW0326-082121	IS1-N	0.019	0.012	0.05	10576060035	SWWW0327-082121	IS1-D	0.022	0.012	0.05	14.6	0.003
10576060	PACE_MPLS	SS-05	8/31/2022	FeTR	mg/L	10576060034	SWWW0326-082121	IS1-N	0.31	0.012	0.05	10576060035	SWWW0327-082121	IS1-D	0.3	0.012	0.05	3.3	
10576060	PACE_MPLS	SS-05	9/1/2022	Hard	mg/L	10576060034	SWWW0326-082121	IS1-N	662	0.6	1.4	10576060035	SWWW0327-082121	IS1-D	655	0.6	1.4	1.1	
10576060	PACE_MPLS	SS-05	9/2/2022	HgDis	mg/L	10576060034	SWWW0326-082121	IS1-N	4.5E-05	4.5E-05	0.0002	10576060035	SWWW0327-082121	IS1-D	0.000045	0.000045	0.0002	0.0	0
10576060	PACE_MPLS	SS-05	9/3/2022	HgTR	mg/L	10576060034	SWWW0326-082121	IS1-N	4.5E-05	4.5E-05	0.0002	10576060035	SWWW0327-082121	IS1-D	0.000045	0.000045	0.0002	0.0	0
10576060	PACE_MPLS	SS-05	9/4/2022	MgDis	mg/L	10576060034	SWWW0326-082121	IS1-N	7	0.0034	0.01	10576060035	SWWW0327-082121	IS1-D	7.2	0.0034	0.01	2.8	
10576060	PACE_MPLS	SS-05	9/5/2022	MoDis	mg/L	10576060034	SWWW0326-082121	IS1-N	0.42	9.4E-05	0.0005	10576060035	SWWW0327-082121	IS1-D	0.44	0.000094	0.0005	4.7	
10576060	PACE_MPLS	SS-05	9/6/2022	MoTR	mg/L	10576060034	SWWW0326-082121	IS1-N	0.4	9.4E-05	0.0005	10576060035	SWWW0327-082121	IS1-D	0.41	0.000094	0.0005	2.5	
10576060	PACE_MPLS	SS-05	9/7/2022	NO3/NO2-N	mg/L	10576060034	SWWW0326-082121	IS1-N	0.85	0.078	0.2	10576060035	SWWW0327-082121	IS1-D	0.86	0.078	0.2	1.2	0.01
10576060	PACE_MPLS	SS-05	9/8/2022	PbDis	mg/L	10576060034	SWWW0326-082121	IS1-N	0.00017	2.8E-05	0.0001	10576060035	SWWW0327-082121	IS1-D	0.00018	0.000028	0.0001	5.7	0.00001
10576060	PACE_MPLS	SS-05	9/9/2022	PbTR	mg/L	10576060034	SWWW0326-082121	IS1-N	0.0041	2.8E-05	0.0001	10576060035	SWWW0327-082121	IS1-D	0.0042	0.000028	0.0001	2.4	
10576060	PACE_MPLS	SS-05	9/10/2022	SO4	mg/L	10576060034	SWWW0326-082121	IS1-N	649	24.2	50	10576060035	SWWW0327-082121	IS1-D	642	24.2	50	1.1	
10576060	PACE_MPLS	SS-05	9/11/2022	TDS	mg/L	10576060034	SWWW0326-082121	IS1-N	1100	5	10	10576060035	SWWW0327-082121	IS1-D	1140	5	10	3.6	
10576060	PACE_MPLS	SS-05	9/12/2022	TSS	mg/L	10576060034	SWWW0326-082121	IS1-N	24.8	5	10	10576060035	SWWW0327-082121	IS1-D	33.2	5	10	29.0	8.4
10576060	PACE_MPLS	SS-05	9/13/2022	ZnDis	mg/L	10576060034	SWWW0326-082121	IS1-N	0.016	0.002	0.005	10576060035	SWWW0327-082121	IS1-D	0.015	0.002	0.005	6.5	0.001
10576060	PACE_MPLS	SS-05	9/14/2022	ZnTR	mg/L	10576060034	SWWW0326-082121	IS1-N	0.024	0.002	0.005	10576060035	SWWW0327-082121	IS1-D	0.027	0.002	0.005	11.8	0.003

Highlighted cells indicate field precision outside of criteria

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_LEN	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-22	
10562380	PACE_LEN	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	724044	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	724046	SW	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	724325	SW	TKN	2021-06-07	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	724325	SW	TKN	2021-06-07	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	724325	SW	TKN	2021-06-07	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	724325	SW	TKN	2021-06-07	METHOD	2021-06-07	EPA 351.2	2021-06-22	
10562380	PACE_LEN	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	724325	SW	TKN	2021-06-07	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	724325	SW	TKN	2021-06-07	METHOD	2021-06-07	EPA 351.2	2021-06-20	
10562380	PACE_LEN	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	724848	SW	DOC	2021-06-07	METHOD	2021-06-07	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	724848	SW	DOC	2021-06-07	METHOD	2021-06-07	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	724848	SW	DOC	2021-06-10	METHOD	2021-06-10	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-22	
10562380	PACE_LEN	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	724848	SW	DOC	2021-06-10	METHOD	2021-06-10	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	724848	SW	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	724848	SW	DOC	2021-06-10	METHOD	2021-06-10	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-20	
10562380	PACE_LEN	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-22	
10562380	PACE_LEN	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-20	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_LEN	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-20	
10562380	PACE_LEN	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	725251	SW	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	745242	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	745243	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	745244	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	745245	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	745246	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-06-01	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	745246	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	745246	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-06-01	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	745246	SW	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	2021-05-30	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	745247	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	745247	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-05-30	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	745247	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-06-01	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	745247	SW	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	2021-06-01	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-22	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	746225	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	746235	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	746235	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	746235	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	746235	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	746308	SW	ALK_CaCO3	2021-06-03	METHOD	2021-06-03	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	746352	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	746352	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	746352	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	746352	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	746352	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	746352	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	746352	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	746352	SW	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	746625	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	746625	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-22	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	746641	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	746643	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-22	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-22	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	746801	SW	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	746834	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	746892	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	746892	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	746892	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	746892	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	746892	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	746892	SW	ALK_CaCO3	2021-06-04	METHOD	2021-06-04	SM 2320B	2021-06-06	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747231	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747361	SW	ALK_CaCO3	2021-06-08	METHOD	2021-06-08	SM 2320B	2021-06-08	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747361	SW	ALK_CaCO3	2021-06-08	METHOD	2021-06-08	SM 2320B	2021-06-08	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747412	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	AgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	AlDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	AsDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	CaDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	CdDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	CuDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	Hard	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	MgDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	MoDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	PbDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747413	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-22	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747415	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747417	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747422	SW	AgTR	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747422	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747422	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747422	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747422	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747422	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747422	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747422	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747423	SW	AgTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747423	SW	AlTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747423	SW	AsTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747423	SW	CdTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747423	SW	CuTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747423	SW	FeTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747423	SW	MoTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747423	SW	PbTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747423	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-10	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-22	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747424	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0028-052321	10562380028	2021-05-23	IS3	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0025-052321	10562380025	2021-05-23	IS2	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0034-052321	10562380034	2021-05-23	IS1	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0037-052321	10562380037	2021-05-23	IS2	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0029-052321	10562380029	2021-05-23	IS2	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0024-052321	10562380024	2021-05-23	IS3	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0035-052321	10562380035	2021-05-23	IS4	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0027-052321	10562380027	2021-05-23	IS4	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-04	SWWW0030-052321	10562380030	2021-05-23	IS1	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0033-052321	10562380033	2021-05-23	IS2	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0026-052321	10562380026	2021-05-23	IS1	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0032-052321	10562380032	2021-05-23	IS3	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-01.35	SWWW0023-052321	10562380023	2021-05-23	IS4	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-05	SWWW0031-052321	10562380031	2021-05-23	IS4	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0038-052321	10562380038	2021-05-23	IS1	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-06A	SWWW0036-052321	10562380036	2021-05-23	IS3	747430	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	AgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	AlDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	CaDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	Hard	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	MgDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	MoDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-22	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747490	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747490	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747490	SW	AgTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	SW	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747490	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	SW	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747490	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747490	SW	AlTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747490	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	SW	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747490	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747490	SW	MoTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-21	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-22	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	747840	SW	NH3-N	2021-06-09	METHOD	2021-06-09	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	747840	SW	NH3-N	2021-06-09	METHOD	2021-06-09	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	747840	SW	NH3-N	2021-06-09	METHOD	2021-06-09	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	747840	SW	NH3-N	2021-06-09	METHOD	2021-06-09	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747840	SW	NH3-N	2021-06-09	METHOD	2021-06-09	EPA 350.1	2021-06-22	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	747840	SW	NH3-N	2021-06-09	METHOD	2021-06-09	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	747840	SW	NH3-N	2021-06-09	METHOD	2021-06-09	EPA 350.1	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0007-052321	10562380007	2021-05-23	IS2	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0011-052321	10562380011	2021-05-23	IS4	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0005-052321	10562380005	2021-05-23	IS4	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0006-052321	10562380006	2021-05-23	IS3	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0012-052321	10562380012	2021-05-23	IS3	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-06G	SWWW0013-052321	10562380013	2021-05-23	IS2	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0008-052321	10562380008	2021-05-23	IS1-N	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0004-052321	10562380004	2021-05-23	IS1	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-06G-P	SWWW0009-052321	10562380009	2021-05-23	IS1-D	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0016-052321	10562380016	2021-05-23	IS3	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-22	
10562380	PACE_MPLS	SS-06G	SWWW0014-052321	10562380014	2021-05-23	IS1	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0015-052321	10562380015	2021-05-23	IS4	747972	SW	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0018-052321	10562380018	2021-05-23	IS1	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0019-052321	10562380019	2021-05-23	IS4	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-07	SWWW0017-052321	10562380017	2021-05-23	IS2	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0040-052321	10562380040	2021-05-23	IS3	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0041-052321	10562380041	2021-05-23	IS2	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0021-052321	10562380021	2021-05-23	IS2	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0020-052321	10562380020	2021-05-23	IS3	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-01-P	SWWW0022-052321	10562380022	2021-05-23	IS1	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0039-052321	10562380039	2021-05-23	IS4	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0043-052321	10562380043	2021-05-23	IS1-D	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SS-07-P	SWWW0042-052321	10562380042	2021-05-23	IS1-N	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	748108	SW	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	2021-06-22	
10562380	PACE_MPLS	SS-01	SWWW0003-052321	10562380003	2021-05-23	IS2	748265	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0002-052321	10562380002	2021-05-23	IS3	748265	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SS-01	SWWW0001-052321	10562380001	2021-05-23	IS4	748265	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	745909	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	745910	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	745911	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	745912	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	745913	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	745913	SW	TDS	2021-06-02	METHOD	2021-06-02	SM 2540C	2021-06-02	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	746372	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-04	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	746372	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-04	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-25	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	746644	SW	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	746693	SW	TDS	2021-06-04	METHOD	2021-06-04	SM 2540C	2021-06-04	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	746693	SW	TDS	2021-06-04	METHOD	2021-06-04	SM 2540C	2021-06-04	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	747367	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	747653	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	747655	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	747656	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	747656	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	747656	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	747656	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	747656	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	747657	SW	ALK_CaCO3	2021-06-09	METHOD	2021-06-09	SM 2320B	2021-06-09	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748076	SW	ALK_CaCO3	2021-06-17	METHOD	2021-06-17	SM 2320B	2021-06-11	HT
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748076	SW	ALK_CaCO3	2021-06-17	METHOD	2021-06-17	SM 2320B	2021-06-11	HT
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	AgDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	AgDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	AgDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	AgDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	AlDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	AlDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	AlDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	AlDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	AsDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	AsDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	AsDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	AsDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	CaDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	CaDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	CaDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	CaDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	CdDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	CdDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	CdDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	CdDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	CuDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	CuDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	CuDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	CuDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	FeDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	FeDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	FeDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	FeDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	Hard	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	Hard	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	Hard	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	Hard	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	MgDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	MgDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	MgDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	MgDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	MoDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	MoDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	MoDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	MoDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	PbDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	PbDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	PbDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	PbDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748271	SW	ZnDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748271	SW	ZnDis	2021-06-11	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748271	SW	ZnDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748271	SW	ZnDis	2021-06-11	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748272	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748275	SW	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748275	SW	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748275	SW	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748275	SW	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748275	SW	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748275	SW	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748275	SW	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748275	SW	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748275	SW	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748276	SW	AgTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748276	SW	AlTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748276	SW	AsTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748276	SW	CdTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748276	SW	CuTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748276	SW	FeTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	SW	MoTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748276	SW	PbTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-24	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748276	SW	ZnTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-25	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748302	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-25	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748303	SW	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748305	SW	HgDis	2021-06-11	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748305	SW	HgDis	2021-06-11	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748305	SW	HgDis	2021-06-11	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748305	SW	HgDis	2021-06-11	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-25	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748306	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-25	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748307	SW	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748308	SW	HgTR	2021-06-11	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748308	SW	HgTR	2021-06-11	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748308	SW	HgTR	2021-06-11	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748308	SW	HgTR	2021-06-11	EPA 245.1	2021-06-14	EPA 245.1	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0052-052621	10562853008	2021-05-26	IS3	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0055-052621	10562853011	2021-05-26	IS4	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-25	
10562853	PACE_MPLS	SS-06G-P	SWWW0053-052621	10562853009	2021-05-26	IS2	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0046-052621	10562853002	2021-05-26	IS3	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0048-052621	10562853004	2021-05-26	IS1-N	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0049-052621	10562853005	2021-05-26	IS1-D	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06G-P	SWWW0051-052621	10562853007	2021-05-26	IS4	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0045-052621	10562853001	2021-05-26	IS4	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01	SWWW0047-052621	10562853003	2021-05-26	IS2	748928	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	748981	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-25	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0056-052621	10562853012	2021-05-26	IS3	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0062-052621	10562853018	2021-05-26	IS1	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0057-052621	10562853013	2021-05-26	IS2	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0060-052621	10562853016	2021-05-26	IS3	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0063-052621	10562853019	2021-05-26	IS4	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01-P	SWWW0064-052621	10562853020	2021-05-26	IS3	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-07	SWWW0061-052621	10562853017	2021-05-26	IS2	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749322	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-25	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749323	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-06-23	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	AgTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	AgTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749576	SW	AgTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749576	SW	AgTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749576	SW	AlTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	AlTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	AlTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749576	SW	AlTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749576	SW	AsTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749576	SW	AsTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	AsTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	AsTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	CdTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	CdTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749576	SW	CdTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749576	SW	CdTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749576	SW	CuTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	CuTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749576	SW	CuTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	CuTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	FeTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	FeTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	FeTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	FeTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749576	SW	FeTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749576	SW	FeTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749576	SW	MoTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	MoTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749576	SW	MoTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	MoTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	PbTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	PbTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749576	SW	PbTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749576	SW	PbTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0088-052621	10562853044	2021-05-26	IS1	749576	SW	ZnTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0085-052621	10562853041	2021-05-26	IS4	749576	SW	ZnTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0086-052621	10562853042	2021-05-26	IS3	749576	SW	ZnTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07-P	SWWW0087-052621	10562853043	2021-05-26	IS2	749576	SW	ZnTR	2021-06-16	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-24	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	FeDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	MoDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0065-052621	10562853021	2021-05-26	IS2	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0067-052621	10562853023	2021-05-26	IS4	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0082-052621	10562853038	2021-05-26	IS1-N	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01-P	SWWW0066-052621	10562853022	2021-05-26	IS1	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0069-052621	10562853025	2021-05-26	IS2	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0076-052621	10562853032	2021-05-26	IS3	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0077-052621	10562853033	2021-05-26	IS2	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0074-052621	10562853030	2021-05-26	IS1	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0079-052621	10562853035	2021-05-26	IS4	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10562853	PACE_MPLS	SS-04	SWWW0071-052621	10562853027	2021-05-26	IS4	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0068-052621	10562853024	2021-05-26	IS3	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0083-052621	10562853039	2021-05-26	IS1-D	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0081-052621	10562853037	2021-05-26	IS2	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0072-052621	10562853028	2021-05-26	IS3	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-01.35	SWWW0070-052621	10562853026	2021-05-26	IS1	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-04	SWWW0073-052621	10562853029	2021-05-26	IS2	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06A	SWWW0080-052621	10562853036	2021-05-26	IS3	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0078-052621	10562853034	2021-05-26	IS1	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-05	SWWW0075-052621	10562853031	2021-05-26	IS4	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	SW	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	2021-11-24	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	750429	SW	AgTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	AgTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	750429	SW	AgTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	AlTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	750429	SW	AlTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	750429	SW	AlTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	750429	SW	AsTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	750429	SW	AsTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	AsTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	CdTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	750429	SW	CdTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	750429	SW	CdTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	750429	SW	CuTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	750429	SW	CuTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	CuTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	FeTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	FeTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	750429	SW	FeTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	750429	SW	FeTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	MoTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	750429	SW	MoTR	2021-06-20	EPA 200.8	2021-06-22	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	750429	SW	MoTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	PbTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	750429	SW	PbTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	750429	SW	PbTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G-P	SWWW0054-052621	10562853010	2021-05-26	IS1	750429	SW	ZnTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-06G	SWWW0058-052621	10562853014	2021-05-26	IS1	750429	SW	ZnTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10562853	PACE_MPLS	SS-07	SWWW0059-052621	10562853015	2021-05-26	IS4	750429	SW	ZnTR	2021-06-20	EPA 200.8	2021-06-21	EPA 200.8	2021-11-22	
10565256	PACE_LEN	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	727575	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_LEN	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-12	
10565256	PACE_LEN	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-12	
10565256	PACE_LEN	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	727576	SW	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	2021-07-08	
10565256	PACE_LEN	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	728389	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	728391	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-12	
10565256	PACE_LEN	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	728391	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	728391	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	728391	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	728391	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	728391	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-12	
10565256	PACE_LEN	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	728391	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_LEN	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	728391	SW	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	749645	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-12	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	749646	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-12	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	749647	SW	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	749936	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	749937	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	749938	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	749939	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	749941	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	749941	SW	TDS	2021-06-17	METHOD	2021-06-17	SM 2540C	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	749948	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	749948	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750247	SW	TDS	2021-06-18	METHOD	2021-06-18	SM 2540C	2021-06-21	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	750247	SW	TDS	2021-06-18	METHOD	2021-06-18	SM 2540C	2021-06-21	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-12	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	750485	SW	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-12	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	750519	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	750523	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-12	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	750527	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-12	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750605	SW	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750605	SW	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750605	SW	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750605	SW	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750605	SW	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	SW	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750657	SW	AgTR	2021-06-22	EPA 200.8	2021-07-13	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750657	SW	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750657	SW	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	SW	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750657	SW	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750657	SW	AgTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750657	SW	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750657	SW	AlTR	2021-06-22	EPA 200.8	2021-07-13	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750657	SW	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750657	SW	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750657	SW	AlTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	SW	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750657	SW	AsTR	2021-06-22	EPA 200.8	2021-07-13	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750657	SW	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750657	SW	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750657	SW	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	SW	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750657	SW	AsTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750657	SW	CdTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750657	SW	CdTR	2021-06-22	EPA 200.8	2021-07-13	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	SW	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750657	SW	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750657	SW	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750657	SW	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750657	SW	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750657	SW	CuTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750657	SW	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750657	SW	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750657	SW	CuTR	2021-06-22	EPA 200.8	2021-07-13	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	SW	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	SW	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750657	SW	FeTR	2021-06-22	EPA 200.8	2021-07-13	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750657	SW	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750657	SW	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750657	SW	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750657	SW	FeTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750657	SW	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750657	SW	MoTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	SW	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750657	SW	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750657	SW	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750657	SW	MoTR	2021-06-22	EPA 200.8	2021-07-13	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	SW	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750657	SW	PbTR	2021-06-22	EPA 200.8	2021-07-13	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750657	SW	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750657	SW	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750657	SW	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750657	SW	PbTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	750657	SW	ZnTR	2021-06-22	EPA 200.8	2021-06-24	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	750657	SW	ZnTR	2021-06-22	EPA 200.8	2021-07-13	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	750657	SW	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	750657	SW	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	750657	SW	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	SW	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750882	SW	TSS	2021-06-21	METHOD	2021-06-21	SM 2540D	2021-06-21	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	750882	SW	TSS	2021-06-21	METHOD	2021-06-21	SM 2540D	2021-06-21	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	Hard	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	Hard	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	MgDis	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751103	SW	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	AgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	AlDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	AsDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-28	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	CaDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	CdDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	CuDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	FeDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-28	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	Hard	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	MgDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-28	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	MoDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	PbDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751104	SW	ZnDis	2021-06-24	EPA 200.8	2021-06-26	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751106	SW	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751106	SW	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751106	SW	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751106	SW	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-28	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751106	SW	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751106	SW	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-11	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751106	SW	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751456	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-12	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-12	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751457	SW	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751638	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751638	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751638	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751638	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751638	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751638	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-12	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	751764	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751851	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	751852	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	751852	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	751852	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	751852	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	751852	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	751852	SW	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2021-07-12	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	751940	SW	ALK_CaCO3	2021-07-01	METHOD	2021-07-01	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	751940	SW	ALK_CaCO3	2021-07-01	METHOD	2021-07-01	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	751940	SW	ALK_CaCO3	2021-07-01	METHOD	2021-07-01	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	751940	SW	ALK_CaCO3	2021-07-01	METHOD	2021-07-01	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-28	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	751943	SW	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	751962	SW	ALK_CaCO3	2021-06-30	METHOD	2021-06-30	SM 2320B	2021-06-24	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	752156	SW	ALK_CaCO3	2021-06-25	METHOD	2021-06-25	SM 2320B	2021-06-28	
10565256	PACE_MPLS	SS-01	SWWW0091-061021	10565256003	2021-06-10	IS2	752241	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0089-061021	10565256001	2021-06-10	IS4	752241	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0090-061021	10565256002	2021-06-10	IS3	752241	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0096-061021	10565256008	2021-06-10	IS1	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0106-061021	10565256018	2021-06-10	IS1	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0107-061021	10565256019	2021-06-10	IS4	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0099-061021	10565256011	2021-06-10	IS2	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0100-061021	10565256012	2021-06-10	IS1-N	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-07	SWWW0105-061021	10565256017	2021-06-10	IS2	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-01	SWWW0092-061021	10565256004	2021-06-10	IS1	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0093-061021	10565256005	2021-06-10	IS4	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-12	
10565256	PACE_MPLS	SS-07	SWWW0103-061021	10565256015	2021-06-10	IS4	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0101-061021	10565256013	2021-06-10	IS1-D	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0094-061021	10565256006	2021-06-10	IS3	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-06G-P	SWWW0095-061021	10565256007	2021-06-10	IS2	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0127-061021	10565256041	2021-06-10	IS4	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0097-061021	10565256009	2021-06-10	IS4	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-07	SWWW0104-061021	10565256016	2021-06-10	IS3	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-01-P	SWWW0108-061021	10565256020	2021-06-10	IS3	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-06G	SWWW0098-061021	10565256010	2021-06-10	IS3	752242	SW	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0128-061021	10565256042	2021-06-10	IS3	752243	SW	P	2021-06-27	SM4500-P-B	2021-06-29	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0131-061021	10565256045	2021-06-10	IS1-D	752243	SW	P	2021-06-27	SM4500-P-B	2021-06-29	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0129-061021	10565256043	2021-06-10	IS2	752243	SW	P	2021-06-27	SM4500-P-B	2021-06-29	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SS-07-P	SWWW0130-061021	10565256044	2021-06-10	IS1-N	752243	SW	P	2021-06-27	SM4500-P-B	2021-06-29	SM 4500-P-F	2021-07-08	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	752243	SW	P	2021-06-27	SM4500-P-B	2021-06-29	SM 4500-P-F	2021-07-12	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	752887	SW	AgTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752887	SW	AlTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752887	SW	AsTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	752887	SW	CdTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	752887	SW	CuTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	752887	SW	FeTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	752887	SW	MoTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	752887	SW	PbTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0123-061021	10565256037	2021-06-10	IS4	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0126-061021	10565256040	2021-06-10	IS1	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0115-061021	10565256029	2021-06-10	IS4	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0118-061021	10565256032	2021-06-10	IS1	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0110-061021	10565256022	2021-06-10	IS1	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0125-061021	10565256039	2021-06-10	IS2	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10565256	PACE_MPLS	SS-05	SWWW0122-061021	10565256036	2021-06-10	IS1	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0111-061021	10565256025	2021-06-10	IS4	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0117-061021	10565256031	2021-06-10	IS2	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-04	SWWW0116-061021	10565256030	2021-06-10	IS3	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0113-061021	10565256027	2021-06-10	IS2	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0120-061021	10565256034	2021-06-10	IS3	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0112-061021	10565256026	2021-06-10	IS3	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-06A	SWWW0124-061021	10565256038	2021-06-10	IS3	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01.35	SWWW0114-061021	10565256028	2021-06-10	IS1	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-01-P	SWWW0109-061021	10565256021	2021-06-10	IS2	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0119-061021	10565256033	2021-06-10	IS4	752887	SW	ZnTR	2021-06-30	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	AgDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	AlDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	AsDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	CaDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	CdDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	CuDis	2021-07-21	EPA 200.8	2021-07-22	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	FeDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	Hard	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	MgDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	MoDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	PbDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757551	SW	ZnDis	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757553	SW	AgTR	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757553	SW	AlTR	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757553	SW	AsTR	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757553	SW	CdTR	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757553	SW	CuTR	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757553	SW	FeTR	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757553	SW	MoTR	2021-07-21	EPA 200.8	2021-07-22	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757553	SW	PbTR	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10565256	PACE_MPLS	SS-05	SWWW0121-061021	10565256035	2021-06-10	IS2	757553	SW	ZnTR	2021-07-21	EPA 200.8	2021-07-21	EPA 200.8	2021-12-07	
10568665	PACE_LEN	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	731840	SW	DOC	2021-07-15	METHOD	2021-07-15	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	731841	SW	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	731841	SW	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-07-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_LEN	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	731841	SW	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-07-29	
10568665	PACE_LEN	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	731841	SW	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-08-03	
10568665	PACE_LEN	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	731841	SW	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	731841	SW	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-07-29	
10568665	PACE_LEN	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	731841	SW	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-08-03	
10568665	PACE_LEN	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	731841	SW	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	2021-07-29	
10568665	PACE_LEN	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-08-03	
10568665	PACE_LEN	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	732261	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	732262	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	732262	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-08-03	
10568665	PACE_LEN	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	732262	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	732262	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	732262	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	732262	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	732262	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_LEN	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	732262	SW	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	CuDis	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754583	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	AgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	AlDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	AsDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	CdDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	CuDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	FeDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	Hard	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	MgDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754585	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754585	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754585	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754585	SW	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754586	SW	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754586	SW	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754586	SW	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	SW	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754586	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754587	SW	AgTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754587	SW	AlTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754587	SW	AsTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754587	SW	CdTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754587	SW	CuTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754587	SW	FeTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754587	SW	MoTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754587	SW	PbTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2022-01-02	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754587	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754588	SW	AgTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754588	SW	AgTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754588	SW	AgTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	AgTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754588	SW	AlTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754588	SW	AlTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	AlTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754588	SW	AlTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754588	SW	AsTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754588	SW	AsTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	AsTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754588	SW	AsTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	CdTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754588	SW	CdTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754588	SW	CdTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754588	SW	CdTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754588	SW	CuTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754588	SW	CuTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	CuTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754588	SW	CuTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754588	SW	FeTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754588	SW	FeTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754588	SW	FeTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	FeTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754588	SW	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754588	SW	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754588	SW	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754588	SW	PbTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754588	SW	PbTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	PbTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754588	SW	PbTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754588	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754588	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754588	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754588	SW	ZnTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-08-03	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754590	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-08-03	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754591	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754592	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754592	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754592	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754592	SW	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-08-03	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754596	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-08-03	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754597	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754598	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754598	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754598	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754598	SW	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754643	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754646	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754647	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754649	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754657	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754657	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-08	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754657	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-13	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754657	SW	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	2021-07-13	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754659	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754659	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754659	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-13	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754659	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-13	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	754807	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	754807	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	754822	SW	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	754822	SW	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	754822	SW	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-08-03	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	754822	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754823	SW	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	2021-08-03	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	754823	SW	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	754823	SW	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	754823	SW	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	754823	SW	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	754823	SW	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	754823	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	754824	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	754824	SW	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	755360	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	755360	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-08-03	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	755361	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	755460	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-08-03	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	755460	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	755460	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	755460	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	755460	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	755460	SW	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	755609	SW	P	2021-07-13	SM4500-P-B	2021-07-15	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	755609	SW	P	2021-07-13	SM4500-P-B	2021-07-15	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	755609	SW	P	2021-07-13	SM4500-P-B	2021-07-15	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	755609	SW	P	2021-07-13	SM4500-P-B	2021-07-15	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	755609	SW	P	2021-07-13	SM4500-P-B	2021-07-15	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	755609	SW	P	2021-07-13	SM4500-P-B	2021-07-15	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	755609	SW	P	2021-07-13	SM4500-P-B	2021-07-15	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	755609	SW	P	2021-07-13	SM4500-P-B	2021-07-15	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	755609	SW	P	2021-07-13	SM4500-P-B	2021-07-15	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-08-03	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-08-03	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	755610	SW	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	755811	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	755811	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	755811	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	755811	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	755811	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	755811	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	755811	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	755811	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	755811	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	756209	SW	ALK_CaCO3	2021-07-14	METHOD	2021-07-14	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	756456	SW	ALK_CaCO3	2021-07-15	METHOD	2021-07-15	SM 2320B	2021-07-15	
10568665	PACE_MPLS	SS-06G-P	SWWW0139-070121	10568665007	2021-07-01	IS2	756645	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0138-070121	10568665006	2021-07-01	IS3	756645	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0137-070121	10568665005	2021-07-01	IS4	756645	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0133-070121	10568665001	2021-07-01	IS4	756645	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06G-P	SWWW0140-070121	10568665008	2021-07-01	IS1	756645	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0134-070121	10568665002	2021-07-01	IS3	756645	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0135-070121	10568665003	2021-07-01	IS2	756645	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01	SWWW0136-070121	10568665004	2021-07-01	IS1	756645	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0142-070121	10568665010	2021-07-01	IS3	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0141-070121	10568665009	2021-07-01	IS4	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0148-070121	10568665016	2021-07-01	IS3	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-08-03	
10568665	PACE_MPLS	SS-07	SWWW0147-070121	10568665015	2021-07-01	IS4	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0151-070121	10568665019	2021-07-01	IS4	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-07	SWWW0150-070121	10568665018	2021-07-01	IS1	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0154-070121	10568665022	2021-07-01	IS1-N	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0143-070121	10568665011	2021-07-01	IS2	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0145-070121	10568665013	2021-07-01	IS1-D	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06G	SWWW0144-070121	10568665012	2021-07-01	IS1-N	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0157-070121	10568665025	2021-07-01	IS4	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0155-070121	10568665023	2021-07-01	IS1-D	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-08-03	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10568665	PACE_MPLS	SS-07	SWWW0149-070121	10568665017	2021-07-01	IS2	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0152-070121	10568665020	2021-07-01	IS3	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0158-070121	10568665026	2021-07-01	IS3	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01-P	SWWW0153-070121	10568665021	2021-07-01	IS2	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0159-070121	10568665027	2021-07-01	IS2	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-01.35	SWWW0160-070121	10568665028	2021-07-01	IS1	756647	SW	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0161-070121	10568665029	2021-07-01	IS4	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0175-070121	10568665043	2021-07-01	IS2	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0176-070121	10568665044	2021-07-01	IS1	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0164-070121	10568665032	2021-07-01	IS1	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0162-070121	10568665030	2021-07-01	IS3	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0172-070121	10568665040	2021-07-01	IS1	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0166-070121	10568665034	2021-07-01	IS3	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-04	SWWW0163-070121	10568665031	2021-07-01	IS2	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0168-070121	10568665036	2021-07-01	IS1	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0167-070121	10568665035	2021-07-01	IS2	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0170-070121	10568665038	2021-07-01	IS3	756654	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	756739	SW	ALK_CaCO3	2021-07-16	METHOD	2021-07-16	SM 2320B	2021-07-20	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	756739	SW	ALK_CaCO3	2021-07-16	METHOD	2021-07-16	SM 2320B	2021-07-20	
10568665	PACE_MPLS	SS-06A	SWWW0171-070121	10568665039	2021-07-01	IS2	757775	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-05	SWWW0165-070121	10568665033	2021-07-01	IS4	757775	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-06A	SWWW0169-070121	10568665037	2021-07-01	IS4	757775	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
10568665	PACE_MPLS	SS-07-P	SWWW0174-070121	10568665042	2021-07-01	IS3	760609	SW	PbDis	2021-08-03	EPA 200.8	2021-08-04	EPA 200.8	2021-12-28	
10568665	PACE_MPLS	SS-07-P	SWWW0173-070121	10568665041	2021-07-01	IS4	760609	SW	PbDis	2021-08-03	EPA 200.8	2021-08-04	EPA 200.8	2021-12-28	
10572927	PACE_LEN	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	737476	SW	DOC	2021-08-12	METHOD	2021-08-12	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-30	
10572927	PACE_LEN	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	737476	SW	DOC	2021-08-12	METHOD	2021-08-12	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	737476	SW	DOC	2021-08-12	METHOD	2021-08-12	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	737476	SW	DOC	2021-08-12	METHOD	2021-08-12	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	737476	SW	DOC	2021-08-12	METHOD	2021-08-12	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	737476	SW	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	737476	SW	DOC	2021-08-12	METHOD	2021-08-12	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-30	
10572927	PACE_LEN	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_LEN	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	737973	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	737974	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	737974	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	737974	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-31	
10572927	PACE_LEN	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	737974	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	737974	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	737974	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	737974	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	737974	SW	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	2021-08-29	
10572927	PACE_LEN	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-31	
10572927	PACE_LEN	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-29	
10572927	PACE_LEN	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	738148	SW	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761395	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	AgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	AsDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	CdDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	FeDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	MgDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	PbDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761396	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	AgDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	AgDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	AgDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	AgDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	AlDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	AlDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	AlDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	AlDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	AsDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	AsDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	AsDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	AsDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	CaDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	CaDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	CaDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	CaDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	CdDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	CdDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	CdDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	CdDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	CuDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	CuDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	CuDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	CuDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	FeDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	FeDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	FeDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	FeDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	Hard	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	Hard	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	Hard	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	Hard	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	MgDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	MgDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	MgDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	MgDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	MoDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	MoDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	MoDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	MoDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	PbDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	PbDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	PbDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	PbDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761397	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761397	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761397	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761397	SW	ZnDis	2021-08-06	EPA 200.8	2021-08-13	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761404	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761404	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0179-080121	10572927003	2021-08-01	IS2	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761404	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761404	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761404	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761404	SW	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761404	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761404	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761404	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761405	SW	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761405	SW	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761405	SW	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761405	SW	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761405	SW	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761405	SW	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761405	SW	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-29	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-30	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761405	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761406	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761406	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761406	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761406	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761406	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761406	SW	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761406	SW	AsTR	2021-08-06	EPA 200.8	2021-08-11	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761406	SW	AsTR	2021-08-06	EPA 200.8	2021-08-11	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	AsTR	2021-08-06	EPA 200.8	2021-08-11	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761406	SW	AsTR	2021-08-06	EPA 200.8	2021-08-11	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761406	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761406	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761406	SW	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761406	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761406	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761406	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761406	SW	FeTR	2021-08-06	EPA 200.8	2021-08-11	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761406	SW	FeTR	2021-08-06	EPA 200.8	2021-08-11	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761406	SW	FeTR	2021-08-06	EPA 200.8	2021-08-11	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	FeTR	2021-08-06	EPA 200.8	2021-08-11	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761406	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761406	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761406	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761406	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761406	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761406	SW	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761406	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761406	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761406	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761406	SW	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	2022-01-28	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-30	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761414	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-30	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-31	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761415	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761417	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761417	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761417	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761417	SW	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-30	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761563	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-31	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761565	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-30	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761567	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761567	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761567	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761567	SW	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-09	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761620	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-09	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761621	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761623	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761624	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761626	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761626	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-08	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761626	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-10	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761626	SW	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	2021-08-09	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761627	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761627	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761627	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-10	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761627	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-09	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-30	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	761838	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-30	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-31	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	761840	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	761844	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	761844	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	761844	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	761844	SW	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	762149	SW	NH3-N	2021-08-09	METHOD	2021-08-09	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	762149	SW	NH3-N	2021-08-09	METHOD	2021-08-09	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	762149	SW	NH3-N	2021-08-09	METHOD	2021-08-09	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	762149	SW	NH3-N	2021-08-09	METHOD	2021-08-09	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	762149	SW	NH3-N	2021-08-09	METHOD	2021-08-09	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	762149	SW	NH3-N	2021-08-09	METHOD	2021-08-09	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	762149	SW	NH3-N	2021-08-09	METHOD	2021-08-09	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	762264	SW	HgTR	2021-08-11	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	762373	SW	P	2021-08-10	SM4500-P-B	2021-08-11	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	762373	SW	P	2021-08-10	SM4500-P-B	2021-08-11	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	762373	SW	P	2021-08-10	SM4500-P-B	2021-08-11	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	762373	SW	P	2021-08-10	SM4500-P-B	2021-08-11	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	762373	SW	P	2021-08-10	SM4500-P-B	2021-08-11	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	762373	SW	P	2021-08-10	SM4500-P-B	2021-08-11	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	762373	SW	P	2021-08-10	SM4500-P-B	2021-08-11	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	762373	SW	P	2021-08-10	SM4500-P-B	2021-08-11	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	762373	SW	P	2021-08-10	SM4500-P-B	2021-08-11	SM 4500-P-F	2021-08-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	762710	SW	ALK_CaCO3	2021-08-11	METHOD	2021-08-11	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	762710	SW	ALK_CaCO3	2021-08-11	METHOD	2021-08-11	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	762710	SW	ALK_CaCO3	2021-08-11	METHOD	2021-08-11	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	762710	SW	ALK_CaCO3	2021-08-11	METHOD	2021-08-11	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0181-080121	10572927005	2021-08-01	IS4	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-30	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0182-080121	10572927006	2021-08-01	IS3	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0183-080121	10572927007	2021-08-01	IS2	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	762774	SW	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-16	
10572927	PACE_MPLS	SS-01	SWWW0177-080121	10572927001	2021-08-01	IS4	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01	SWWW0178-080121	10572927002	2021-08-01	IS3	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01	SWWW0179-080121	10572927003	2021-08-01	IS2	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01	SWWW0180-080121	10572927004	2021-08-01	IS1	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	763057	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-16	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	763058	SW	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	2021-08-15	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-31	
10572927	PACE_MPLS	SS-01.35	SWWW0201-080221	10572927025	2021-08-02	IS4	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-30	
10572927	PACE_MPLS	SS-04	SWWW0207-080121	10572927031	2021-08-01	IS2	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0202-080121	10572927026	2021-08-01	IS3	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0206-080121	10572927030	2021-08-01	IS3	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0203-080121	10572927027	2021-08-01	IS2	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0205-080121	10572927029	2021-08-01	IS4	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-01.35	SWWW0204-080121	10572927028	2021-08-01	IS1	763351	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0211-080121	10572927035	2021-08-01	IS2	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0214-080121	10572927038	2021-08-01	IS3	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-04	SWWW0208-080121	10572927032	2021-08-01	IS1	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0210-080121	10572927034	2021-08-01	IS3	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0209-080121	10572927033	2021-08-01	IS4	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0213-080121	10572927037	2021-08-01	IS4	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-05	SWWW0212-080121	10572927036	2021-08-01	IS1	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0215-080121	10572927039	2021-08-01	IS2	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SS-06A	SWWW0216-080121	10572927040	2021-08-01	IS1	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	763364	SW	ALK_CaCO3	2021-08-13	METHOD	2021-08-13	SM 2320B	2021-08-17	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-31	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-06G-P	SWWW0184-080121	10572927008	2021-08-01	IS1	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0185-080121	10572927009	2021-08-01	IS4	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-30	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	763544	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	763545	SW	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-31	
10572927	PACE_MPLS	SS-07-P	SWWW0218-080121	10572927042	2021-08-01	IS3	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0217-080121	10572927041	2021-08-01	IS4	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0219-080121	10572927043	2021-08-01	IS2	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0198-080121	10572927022	2021-08-01	IS1-N	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0189-080121	10572927013	2021-08-01	IS1-D	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0194-080121	10572927018	2021-08-01	IS1	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0195-080121	10572927019	2021-08-01	IS4	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0196-080121	10572927020	2021-08-01	IS3	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0197-080121	10572927021	2021-08-01	IS2	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0188-080121	10572927012	2021-08-01	IS1-N	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-01-P	SWWW0199-080121	10572927023	2021-08-01	IS1-D	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0193-080121	10572927017	2021-08-01	IS2	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0186-080121	10572927010	2021-08-01	IS3	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-06G	SWWW0187-080121	10572927011	2021-08-01	IS2	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-07	SWWW0192-080121	10572927016	2021-08-01	IS3	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-30	
10572927	PACE_MPLS	SS-07	SWWW0191-080121	10572927015	2021-08-01	IS4	763942	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10572927	PACE_MPLS	SS-07-P	SWWW0220-080121	10572927044	2021-08-01	IS1	764023	SW	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	2021-08-29	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	762980	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	762981	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	762982	SW	TDS	2021-08-13	METHOD	2021-08-13	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	762985	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	762988	SW	TDS	2021-08-12	METHOD	2021-08-12	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	762988	SW	TDS	2021-08-12	METHOD	2021-08-12	SM 2540C	2021-08-15	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	762991	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	762991	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763427	SW	TDS	2021-08-16	METHOD	2021-08-16	SM 2540C	2021-08-16	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763432	SW	TSS	2021-08-16	METHOD	2021-08-16	SM 2540D	2021-08-16	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763568	SW	TDS	2021-08-15	METHOD	2021-08-15	SM 2540C	2021-08-17	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763619	SW	TSS	2021-08-16	METHOD	2021-08-16	SM 2540D	2021-08-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763825	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	CaDis	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	Hard	2021-08-17	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763826	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-06	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763829	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-07	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763830	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-25	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-25	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-25	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-25	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763880	SW	AgTR	2021-08-18	EPA 200.8	2021-08-25	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763880	SW	AlTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763880	SW	AsTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763880	SW	CdTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763880	SW	CuTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763880	SW	FeTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763880	SW	MoTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763880	SW	PbTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763880	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763883	SW	AgTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763883	SW	AlTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763883	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763883	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763883	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763883	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763883	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-06	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763883	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-06	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	763891	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-07	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	763892	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763896	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763896	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763896	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763896	SW	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763896	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763896	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763896	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763896	SW	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763896	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763896	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763896	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763896	SW	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	764275	SW	NO3/NO2-N	2021-08-18	METHOD	2021-08-18	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	764275	SW	NO3/NO2-N	2021-08-18	METHOD	2021-08-18	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	764275	SW	NO3/NO2-N	2021-08-18	METHOD	2021-08-18	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	764275	SW	NO3/NO2-N	2021-08-18	METHOD	2021-08-18	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	764347	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01	SWWW0224-080821	10574117004	2021-08-08	IS1	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01	SWWW0223-080821	10574117003	2021-08-08	IS2	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01	SWWW0221-080821	10574117001	2021-08-08	IS4	764614	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	764615	SW	ALK_CaCO3	2021-08-19	METHOD	2021-08-19	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	764632	SW	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	2021-09-06	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	764633	SW	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	764633	SW	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-07	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	764633	SW	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	765009	SW	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	765009	SW	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	2021-08-24	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	765009	SW	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	765009	SW	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	765009	SW	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	2021-08-22	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	765009	SW	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	765009	SW	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	765009	SW	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	2021-08-23	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	765009	SW	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	2021-08-22	
10574117	PACE_MPLS	SS-01.35	SWWW0243-080821	10574117023	2021-08-08	IS4	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0241-080821	10574117021	2021-08-08	IS2	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0239-080821	10574117019	2021-08-08	IS4	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0242-080821	10574117022	2021-08-08	IS1	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0233-080821	10574117013	2021-08-08	IS1-D	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0236-080821	10574117016	2021-08-08	IS3	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0237-080821	10574117017	2021-08-08	IS2	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0227-080821	10574117007	2021-08-08	IS2	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01-P	SWWW0240-080821	10574117020	2021-08-08	IS3	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-06	
10574117	PACE_MPLS	SS-07	SWWW0235-080821	10574117015	2021-08-08	IS4	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0225-080821	10574117005	2021-08-08	IS4	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-07	SWWW0238-080821	10574117018	2021-08-08	IS1	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0230-080821	10574117010	2021-08-08	IS3	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0229-080821	10574117009	2021-08-08	IS4	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0232-080821	10574117012	2021-08-08	IS1-N	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G	SWWW0231-080821	10574117011	2021-08-08	IS2	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0228-080821	10574117008	2021-08-08	IS1	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06G-P	SWWW0226-080821	10574117006	2021-08-08	IS3	765249	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0246-080821	10574117026	2021-08-08	IS1	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0244-080821	10574117024	2021-08-08	IS3	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0249-080821	10574117029	2021-08-08	IS2	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0248-080821	10574117028	2021-08-08	IS3	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-01.35	SWWW0245-080821	10574117025	2021-08-08	IS2	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0247-080821	10574117027	2021-08-08	IS4	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-07	
10574117	PACE_MPLS	SS-06A	SWWW0260-080821	10574117040	2021-08-08	IS1	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-04	SWWW0250-080821	10574117030	2021-08-08	IS1	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0261-080821	10574117041	2021-08-08	IS4	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0258-080821	10574117038	2021-08-08	IS3	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0253-080821	10574117033	2021-08-08	IS2	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0251-080821	10574117031	2021-08-08	IS4	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0252-080821	10574117032	2021-08-08	IS3	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0262-080821	10574117042	2021-08-08	IS3	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0254-080821	10574117034	2021-08-08	IS1-N	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0263-080821	10574117043	2021-08-08	IS2	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-05	SWWW0255-080821	10574117035	2021-08-08	IS1-D	765250	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-07-P	SWWW0264-080821	10574117044	2021-08-08	IS1	765251	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0257-080821	10574117037	2021-08-08	IS4	766024	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SS-06A	SWWW0259-080821	10574117039	2021-08-08	IS2	766024	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90-02	2021-09-05	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	SW	AgTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	767016	SW	AgTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	SW	AlTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	767016	SW	AlTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	SW	AsTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	767016	SW	AsTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	767016	SW	CdTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	SW	CdTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-05	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	767016	SW	CuTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	SW	CuTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	SW	FeTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	767016	SW	FeTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	767016	SW	MoTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	SW	MoTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	SW	PbTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-05	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	767016	SW	PbTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SS-01	SWWW0222-080821	10574117002	2021-08-08	IS3	767016	SW	ZnTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-04	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	SW	ZnTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	2022-02-05	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765034	SW	TDS	2021-08-23	METHOD	2021-08-23	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765034	SW	TDS	2021-08-23	METHOD	2021-08-23	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765034	SW	TDS	2021-08-23	METHOD	2021-08-23	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765034	SW	TDS	2021-08-23	METHOD	2021-08-23	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765034	SW	TDS	2021-08-23	METHOD	2021-08-23	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765034	SW	TDS	2021-08-23	METHOD	2021-08-23	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765034	SW	TDS	2021-08-23	METHOD	2021-08-23	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765039	SW	TSS	2021-08-23	METHOD	2021-08-23	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765046	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765046	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-26	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765046	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765046	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-26	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765046	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765046	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765046	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765046	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765155	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765155	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765155	SW	AsTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765155	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765155	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765155	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765155	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765155	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765156	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765156	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765156	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765156	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765156	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765156	SW	AgTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765156	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765156	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765156	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765156	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765156	SW	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765156	SW	AlTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765156	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765156	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765156	SW	AsTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765156	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765156	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765156	SW	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765156	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765156	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765156	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765156	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765156	SW	CdTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765156	SW	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765156	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765156	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765156	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765156	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765156	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765156	SW	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765156	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765156	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765156	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765156	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765156	SW	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765156	SW	FeTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765156	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765156	SW	MoTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765156	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765156	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765156	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765156	SW	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765156	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765156	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765156	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765156	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765156	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765156	SW	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765156	SW	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-15	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-15	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	AgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	AgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	AgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	AgDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	AgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	AgDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	AgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	AgDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	AlDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	AlDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	AlDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	AlDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	AlDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	AlDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	AlDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	AlDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	AsDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	AsDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	AsDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	AsDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	AsDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	AsDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	AsDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	AsDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	CaDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	CdDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	CdDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	CdDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	CdDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	CdDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	CdDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	CdDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	CdDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	CuDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	CuDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	CuDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	CuDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	CuDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	CuDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	CuDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	CuDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	FeDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	FeDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	FeDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	FeDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	FeDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	FeDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	FeDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	FeDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	Hard	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	Hard	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	Hard	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	Hard	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	Hard	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	Hard	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	Hard	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	Hard	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	MgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	MgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	MgDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	MgDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	MgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	MgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	MgDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	MgDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	MoDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	MoDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	MoDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	MoDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	MoDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	MoDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	MoDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	MoDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	PbDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	PbDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	PbDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	PbDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	PbDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	PbDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	PbDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	PbDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765160	SW	ZnDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765160	SW	ZnDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765160	SW	ZnDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765160	SW	ZnDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765160	SW	ZnDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765160	SW	ZnDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765160	SW	ZnDis	2021-08-23	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765160	SW	ZnDis	2021-08-23	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-16	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765186	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-16	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765187	SW	HgDis	2021-08-23	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765187	SW	HgDis	2021-08-23	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765187	SW	HgDis	2021-08-23	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765187	SW	HgDis	2021-08-23	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765187	SW	HgDis	2021-08-23	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765187	SW	HgDis	2021-08-23	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765187	SW	HgDis	2021-08-23	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765187	SW	HgDis	2021-08-23	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-16	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-16	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765190	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765191	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765191	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765191	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765191	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765191	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765191	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765191	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765191	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-16	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	765361	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-16	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765362	SW	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	765402	SW	TDS	2021-08-24	METHOD	2021-08-24	SM 2540C	2021-08-25	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765772	SW	TDS	2021-08-25	METHOD	2021-08-25	SM 2540C	2021-08-26	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765772	SW	TDS	2021-08-25	METHOD	2021-08-25	SM 2540C	2021-08-26	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	766357	SW	SO4	2021-08-27	METHOD	2021-08-27	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	766357	SW	SO4	2021-08-27	METHOD	2021-08-27	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	766357	SW	SO4	2021-08-27	METHOD	2021-08-27	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	766357	SW	SO4	2021-08-27	METHOD	2021-08-27	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	766357	SW	SO4	2021-08-27	METHOD	2021-08-27	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G	SWWW0269-081821	10575368005	2021-08-18	IS4	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G-P	SWWW0265-081821	10575368001	2021-08-18	IS4	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G-P	SWWW0266-081821	10575368002	2021-08-18	IS3	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G-P	SWWW0268-081821	10575368004	2021-08-18	IS1	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G-P	SWWW0267-081821	10575368003	2021-08-18	IS2	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-02	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-02	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	767175	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06G	SWWW0270-081821	10575368006	2021-08-18	IS3	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-16	
10575368	PACE_MPLS	SS-06G	SWWW0273-081821	10575368009	2021-08-18	IS1-D	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0272-081821	10575368008	2021-08-18	IS1-N	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0275-081821	10575368011	2021-08-18	IS4	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0278-081821	10575368014	2021-08-18	IS1	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06G	SWWW0271-081821	10575368007	2021-08-18	IS2	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0281-081821	10575368017	2021-08-18	IS2	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0282-081821	10575368018	2021-08-18	IS1-N	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0283-081821	10575368019	2021-08-18	IS1-D	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0276-081821	10575368012	2021-08-18	IS3	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-07	SWWW0277-081821	10575368013	2021-08-18	IS2	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0280-081821	10575368016	2021-08-18	IS3	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-04	SWWW0279-081821	10575368015	2021-08-18	IS4	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	767229	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-16	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-15	
10575368	PACE_MPLS	SS-07-P	SWWW0290-081821	10575368026	2021-08-18	IS3	767253	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-07-P	SWWW0291-081821	10575368027	2021-08-18	IS2	767253	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06A	SWWW0285-081821	10575368021	2021-08-18	IS4	767253	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06A	SWWW0286-081821	10575368022	2021-08-18	IS3	767253	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06A	SWWW0288-081821	10575368024	2021-08-18	IS1	767253	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-07-P	SWWW0289-081821	10575368025	2021-08-18	IS4	767253	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-07-P	SWWW0292-081821	10575368028	2021-08-18	IS1	767253	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10575368	PACE_MPLS	SS-06A	SWWW0287-081821	10575368023	2021-08-18	IS2	767253	SW	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	2021-09-01	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-31	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766440	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-31	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766443	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-31	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766444	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-31	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766445	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766446	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766446	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766446	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766446	SW	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	2021-08-28	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766448	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766448	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766448	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766448	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-21	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766486	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-21	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766487	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-21	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766492	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-21	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766493	SW	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	AgDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	AgDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	AgDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	AgDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	AlDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	AlDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	AlDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	AlDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	CaDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	CaDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	CaDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	CaDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	Hard	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	Hard	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	Hard	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	Hard	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	Hard	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	MgDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	MgDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	MgDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	MgDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	MoDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	MoDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	MoDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	MoDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	AgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	AlDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	AsDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	CaDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	CdDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	FeDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	Hard	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	MgDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	MoDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	PbDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766501	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766505	SW	AgTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766505	SW	AgTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766505	SW	AgTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766505	SW	AgTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766505	SW	AlTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766505	SW	AlTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766505	SW	AlTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766505	SW	AlTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766505	SW	MoTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766505	SW	MoTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766505	SW	MoTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766505	SW	MoTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766506	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766506	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766506	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766506	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766506	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766506	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766506	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	766506	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766508	SW	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766508	SW	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766508	SW	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766508	SW	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766508	SW	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766508	SW	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766508	SW	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766508	SW	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	766508	SW	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	767242	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	767242	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	767242	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-07	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	767917	SW	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-07	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768071	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	768076	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	768076	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	768076	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	768076	SW	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	2021-09-04	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	AgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	AlDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	AsDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	CaDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	CdDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	CuDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	Hard	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	MgDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	MoDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	PbDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768140	SW	ZnDis	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	SW	AgTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768142	SW	AgTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	768142	SW	AgTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	768142	SW	AlTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768142	SW	AlTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	SW	AlTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	SW	AsTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768142	SW	AsTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	768142	SW	AsTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	768142	SW	CdTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768142	SW	CdTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	SW	CdTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	SW	CuTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768142	SW	CuTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	768142	SW	CuTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	768142	SW	FeTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	SW	FeTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768142	SW	FeTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768142	SW	MoTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	SW	MoTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	768142	SW	MoTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	768142	SW	PbTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	SW	PbTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768142	SW	PbTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768142	SW	ZnTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	SW	ZnTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-20	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	768142	SW	ZnTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-21	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	768420	SW	SO4	2021-09-10	METHOD	2021-09-10	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	768420	SW	SO4	2021-09-10	METHOD	2021-09-10	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	768420	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	768421	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	768421	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	768421	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	768421	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	768421	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	768421	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	768421	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	768421	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	768421	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	768422	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	768422	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	768422	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	768422	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	768422	SW	SO4	2021-09-10	METHOD	2021-09-10	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	768422	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	768422	SW	SO4	2021-09-10	METHOD	2021-09-10	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	768422	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	768422	SW	SO4	2021-09-10	METHOD	2021-09-10	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768422	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-21	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	768422	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	768422	SW	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0308-082121	10576060016	2021-08-21	IS3	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0310-082121	10576060018	2021-08-21	IS1	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0309-082121	10576060017	2021-08-21	IS2	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-07	SWWW0307-082121	10576060015	2021-08-21	IS4	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0301-082121	10576060009	2021-08-21	IS4	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0299-082121	10576060007	2021-08-21	IS2	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0300-082121	10576060008	2021-08-21	IS1	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0293-082121	10576060001	2021-08-21	IS4	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0295-082121	10576060003	2021-08-21	IS2	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0298-082121	10576060006	2021-08-21	IS3	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-21	
10576060	PACE_MPLS	SS-06G	SWWW0303-082121	10576060011	2021-08-21	IS2	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0304-082121	10576060012	2021-08-21	IS1-N	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0312-082121	10576060020	2021-08-21	IS3	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0311-082121	10576060019	2021-08-21	IS4	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01	SWWW0294-082121	10576060002	2021-08-21	IS3	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	

Table A6b. BPSOU 2021 Wet Weather Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Batch ID	Media	Parameter	Prep Date	Prep Method	Analysis Date	AnalysisMethod	Hold Expires	DV Code
10576060	PACE_MPLS	SS-01	SWWW0296-082121	10576060004	2021-08-21	IS1	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0305-082121	10576060013	2021-08-21	IS1-D	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06G	SWWW0302-082121	10576060010	2021-08-21	IS3	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06G-P	SWWW0297-082121	10576060005	2021-08-21	IS4	769076	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0313-082121	10576060021	2021-08-21	IS2	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01-P	SWWW0314-082121	10576060022	2021-08-21	IS1	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0315-082121	10576060023	2021-08-21	IS4	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0316-082121	10576060024	2021-08-21	IS3	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0319-082121	10576060027	2021-08-21	IS4	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0322-082121	10576060030	2021-08-21	IS1	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-21	
10576060	PACE_MPLS	SS-04	SWWW0321-082121	10576060029	2021-08-21	IS2	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-04	SWWW0320-082121	10576060028	2021-08-21	IS3	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0317-082121	10576060025	2021-08-21	IS2	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0330-082121	10576060038	2021-08-21	IS3	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0331-082121	10576060039	2021-08-21	IS2	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0327-082121	10576060035	2021-08-21	IS1-D	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0329-082121	10576060037	2021-08-21	IS4	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-06A	SWWW0332-082121	10576060040	2021-08-21	IS1	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0326-082121	10576060034	2021-08-21	IS1-N	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0324-082121	10576060032	2021-08-21	IS3	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0323-082121	10576060031	2021-08-21	IS4	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-01.35	SWWW0318-082121	10576060026	2021-08-21	IS1	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-05	SWWW0325-082121	10576060033	2021-08-21	IS2	769077	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0335-082121	10576060043	2021-08-21	IS2	769080	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0334-082121	10576060042	2021-08-21	IS3	769080	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0333-082121	10576060041	2021-08-21	IS4	769080	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	
10576060	PACE_MPLS	SS-07-P	SWWW0336-082121	10576060044	2021-08-21	IS1	769080	SW	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	2021-09-18	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10562380	PACE_LEN	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	724044	TKN	2021-06-03	METHOD	2021-06-07	EPA 351.2	0.48	0.48	0.5	U	
10562380	PACE_LEN	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	724325	TKN	2021-06-07	METHOD	2021-06-07	EPA 351.2	0.48	0.48	0.5	U	
10562380	PACE_LEN	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	724848	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	0.47	0.3	1	J	
10562380	PACE_LEN	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	724848	DOC	2021-06-08	METHOD	2021-06-08	SM 5310C	0.47	0.3	1	J	
10562380	PACE_LEN	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	725251	DOC	2021-06-09	METHOD	2021-06-09	SM 5310C	0.52	0.3	1	J	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	745246	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	11	5	10		
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	745246	TDS	2021-05-30	METHOD	2021-05-30	SM 2540C	6	5	10	J	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	745247	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	5	5	10	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	745247	TSS	2021-05-30	METHOD	2021-05-30	SM 2540D	5	5	10	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	746225	NH3-N	2021-06-03	METHOD	2021-06-03	EPA 350.1	0.03	0.03	0.1	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	746641	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	0.078	0.078	0.2	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	746644	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	0.087	0.078	0.2	J,B	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	746801	SO4	2021-06-07	METHOD	2021-06-07	ASTM D516-90-02	3.1	1.2	2.5		
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747361	ALK_CaCO3	2021-06-08	METHOD	2021-06-08	SM 2320B	2	2	5	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747361	ALK_CaCO3	2021-06-08	METHOD	2021-06-08	SM 2320B	2	2	5	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.000077	0.000077	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.0071	0.0071	0.02	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.00014	0.00014	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.015	0.015	0.04	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.00003	0.00003	0.00008	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.00043	0.00043	0.001	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.012	0.012	0.05	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.054	0.054	0.14	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.0039	0.0039	0.01	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.000081	0.000081	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.000043	0.000043	0.0001	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747412	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.0023	0.0023	0.005	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747415	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	0.000045	0.000045	0.0002	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.000077	0.000077	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.0071	0.0071	0.02	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.00014	0.00014	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.00003	0.00003	0.00008	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.00043	0.00043	0.001	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.012	0.012	0.05	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.000081	0.000081	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.00005	0.000043	0.0001	J	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747422	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.0023	0.0023	0.005	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747424	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	0.000045	0.000045	0.0002	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	AgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.000077	0.000077	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	AlDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.0071	0.0071	0.02	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.00014	0.00014	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	CaDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.015	0.015	0.04	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.00003	0.00003	0.00008	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.0015	0.00043	0.001		
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.014	0.012	0.05	J,B	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	Hard	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.054	0.054	0.14	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	MgDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.0039	0.0039	0.01	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	MoDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.000081	0.000081	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.000056	0.000043	0.0001	J	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747482	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	0.0023	0.0023	0.005	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747486	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	0.000045	0.000045	0.0002	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	AgTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.000077	0.000077	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	AlTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.0071	0.0071	0.02	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.00014	0.00014	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.00003	0.00003	0.00008	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.00043	0.00043	0.001	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.012	0.012	0.05	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	MoTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.000081	0.000081	0.0005	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.000051	0.000043	0.0001	J	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747490	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	0.0023	0.0023	0.005	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747492	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	0.000045	0.000045	0.0002	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	747840	NH3-N	2021-06-09	METHOD	2021-06-09	EPA 350.1	0.03	0.03	0.1	U	
10562380	PACE_MPLS	SWQC	SWWW0010-052521	10562380010	2021-05-25	FB	747972	P	2021-06-09	SM4500-P-B	2021-06-11	SM 4500-P-F	0.05	0.05	0.1	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	748108	P	2021-06-10	SM4500-P-B	2021-06-11	SM 4500-P-F	0.05	0.05	0.1	U	
10562380	PACE_MPLS	SWQC	SWWW0044-052521	10562380044	2021-05-25	FB	748856	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	1.2	1.2	2.5	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	746372	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	5	5	10	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	746372	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	5	5	10	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	746644	NO3/NO2-N	2021-06-04	METHOD	2021-06-04	SM 4500-NO3-H	0.078	0.078	0.2	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	746693	TDS	2021-06-04	METHOD	2021-06-04	SM 2540C	5	5	10	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	746693	TDS	2021-06-04	METHOD	2021-06-04	SM 2540C	5	5	10	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748076	ALK_CaCO3	2021-06-17	METHOD	2021-06-17	SM 2320B	1.8	1.8	5	U,H1	UJ
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748076	ALK_CaCO3	2021-06-17	METHOD	2021-06-17	SM 2320B	1.8	1.8	5	U,H1	UJ
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	AgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.000077	0.000077	0.0005	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	AlDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.0071	0.0071	0.02	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	AsDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.00014	0.00014	0.0005	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	CaDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.015	0.015	0.04	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	CdDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.00003	0.00003	0.00008	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	CuDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.00043	0.00043	0.001	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	FeDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.012	0.012	0.05	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	Hard	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.054	0.054	0.14	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	MgDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.0039	0.0039	0.01	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	MoDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.000081	0.000081	0.0005	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	PbDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.000043	0.000043	0.0001	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748272	ZnDis	2021-06-13	EPA 200.8	2021-06-14	EPA 200.8	0.0023	0.0023	0.005	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	AgTR	2021-06-13	EPA 200.8	2021-06-17	EPA 200.8	0.00038	0.00038	0.0025	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	AlTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	0.036	0.036	0.1	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	AsTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	0.0007	0.0007	0.0025	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	CdTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	0.00015	0.00015	0.0004	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	CuTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	0.0021	0.0021	0.005	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	FeTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	0.06	0.06	0.25	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	MoTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	0.0004	0.0004	0.0025	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	PbTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	0.00022	0.00022	0.0005	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748275	ZnTR	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	0.011	0.011	0.025	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	AgTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	0.000077	0.000077	0.0005	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	AlTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	0.0071	0.0071	0.02	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	AsTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	0.00014	0.00014	0.0005	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	CdTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	0.00003	0.00003	0.00008	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	CuTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	0.00043	0.00043	0.001	U	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	FeTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	0.012	0.012	0.05	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	MoTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	0.00017	0.000081	0.0005	J	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	PbTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	0.000074	0.000043	0.0001	J,B	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748276	ZnTR	2021-06-14	EPA 200.8	2021-06-16	EPA 200.8	0.0023	0.0023	0.005	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748302	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	0.000045	0.000045	0.0002	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748303	HgDis	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	0.000045	0.000045	0.0002	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748306	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	0.000045	0.000045	0.0002	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748307	HgTR	2021-06-10	EPA 245.1	2021-06-14	EPA 245.1	0.000045	0.000045	0.0002	U	
10562853	PACE_MPLS	SWQC	SWWW0050-052821	10562853006	2021-05-28	FB	748928	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	1.2	1.2	2.5	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	748994	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	1.2	1.2	2.5	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749323	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	0.091	0.078	0.2	J,B	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	AgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	0.000077	0.000077	0.0005	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	AlDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	0.0071	0.0071	0.02	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	AsDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	0.00014	0.00014	0.0005	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	CaDis	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	0.02	0.015	0.04	J	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	CdDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	0.00003	0.00003	0.00008	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	CuDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	0.00043	0.00043	0.001	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	FeDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	0.012	0.012	0.05	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	Hard	2021-06-17	EPA 200.8	2021-06-21	EPA 200.8	0.064	0.054	0.14	J	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	MgDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	0.0039	0.0039	0.01	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	MoDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	0.000089	0.000081	0.0005	J	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	PbDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	0.000043	0.000043	0.0001	U	
10562853	PACE_MPLS	SWQC	SWWW0084-052821	10562853040	2021-05-28	FB	749998	ZnDis	2021-06-17	EPA 200.8	2021-06-18	EPA 200.8	0.0023	0.0023	0.005	U	
10565256	PACE_LEN	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	727576	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	0.6	0.3	1	J	
10565256	PACE_LEN	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	727576	DOC	2021-06-21	METHOD	2021-06-21	SM 5310C	0.3	0.3	1	U	
10565256	PACE_LEN	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	728391	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	0.48	0.48	0.5	U	
10565256	PACE_LEN	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	728391	TKN	2021-06-24	METHOD	2021-06-25	EPA 351.2	0.48	0.48	0.5	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	749646	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	0.078	0.078	0.2	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	749647	NO3/NO2-N	2021-06-16	METHOD	2021-06-16	SM 4500-NO3-H	0.1	0.078	0.2	J,B	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	750247	TDS	2021-06-18	METHOD	2021-06-18	SM 2540C	5	5	10	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750247	TDS	2021-06-18	METHOD	2021-06-18	SM 2540C	5	5	10	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	750485	HgDis	2021-06-18	EPA 245.1	2021-06-22	EPA 245.1	0.000045	0.000045	0.0002	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	750519	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	0.000045	0.000045	0.0002	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750526	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	0.000045	0.000045	0.0002	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750529	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	0.000045	0.000045	0.0002	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	AgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.000077	0.000077	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	AlDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.0071	0.0071	0.02	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	AsDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.00014	0.00014	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	CaDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.019	0.015	0.04	J	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	CdDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.00003	0.00003	0.00008	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	CuDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.00047	0.00043	0.001	J	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	FeDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.012	0.012	0.05	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	Hard	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.064	0.054	0.14	J	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	MgDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.0041	0.0039	0.01	J	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	MoDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.000081	0.000081	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	PbDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.000043	0.000043	0.0001	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750605	ZnDis	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.0023	0.0023	0.005	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	AgTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.000077	0.000077	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	AlTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.0071	0.0071	0.02	U	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	AsTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.00014	0.00014	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	CdTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.00003	0.00003	0.00008	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	CuTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.00043	0.00043	0.001	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	FeTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.012	0.012	0.05	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	MoTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.000081	0.000081	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	PbTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.000043	0.000043	0.0001	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750657	ZnTR	2021-06-22	EPA 200.8	2021-06-25	EPA 200.8	0.0023	0.0023	0.005	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	750882	TSS	2021-06-21	METHOD	2021-06-21	SM 2540D	5	5	10	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	750882	TSS	2021-06-21	METHOD	2021-06-21	SM 2540D	5	5	10	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	AgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.000077	0.000077	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	AlDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.0071	0.0071	0.02	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	AsDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.00014	0.00014	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	CaDis	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	0.017	0.015	0.04	J	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	CdDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.00003	0.00003	0.00008	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	CuDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.00043	0.00043	0.001	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	FeDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.012	0.012	0.05	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	Hard	2021-06-24	EPA 200.8	2021-07-02	EPA 200.8	0.061	0.054	0.14	J	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	MgDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.0043	0.0039	0.01	J	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	MoDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.000081	0.000081	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	PbDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.000043	0.000043	0.0001	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751103	ZnDis	2021-06-24	EPA 200.8	2021-07-01	EPA 200.8	0.0023	0.0023	0.005	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	AgTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	0.000077	0.000077	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	AlTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	0.0071	0.0071	0.02	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	AsTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	0.00014	0.00014	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	CdTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	0.00003	0.00003	0.00008	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	CuTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	0.00043	0.00043	0.001	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	FeTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	0.017	0.012	0.05	J	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	MoTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	0.000081	0.000081	0.0005	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	PbTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	0.000063	0.000043	0.0001	J	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751106	ZnTR	2021-06-24	EPA 200.8	2021-06-25	EPA 200.8	0.0023	0.0023	0.005	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751457	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	0.03	0.03	0.1	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	751457	NH3-N	2021-06-23	METHOD	2021-06-23	EPA 350.1	0.03	0.03	0.1	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751764	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	2.7	1.2	2.5		
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	751852	SO4	2021-06-24	METHOD	2021-06-24	ASTM D516-90-02	1.2	1.2	2.5	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	751943	ALK_CaCO3	2021-06-24	METHOD	2021-06-24	SM 2320B	1.8	1.8	5	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	752156	ALK_CaCO3	2021-06-25	METHOD	2021-06-25	SM 2320B	1.8	1.8	5	U	
10565256	PACE_MPLS	SWQC	SWWW0102-061421	10565256014	2021-06-14	FB	752242	P	2021-06-27	SM4500-P-B	2021-06-28	SM 4500-P-F	0.05	0.05	0.1	U	
10565256	PACE_MPLS	SWQC	SWWW0132-061421	10565256046	2021-06-14	FB	752243	P	2021-06-27	SM4500-P-B	2021-06-29	SM 4500-P-F	0.05	0.05	0.1	U	
10568665	PACE_LEN	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	731841	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	0.48	0.3	1	J	
10568665	PACE_LEN	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	731841	DOC	2021-07-16	METHOD	2021-07-16	SM 5310C	0.48	0.3	1	J	
10568665	PACE_LEN	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	732261	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	0.48	0.48	0.5	U	
10568665	PACE_LEN	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	732262	TKN	2021-07-16	METHOD	2021-07-16	EPA 351.2	0.48	0.48	0.5	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	AgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.000077	0.000077	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	AlDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.0071	0.0071	0.02	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	AsDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.00014	0.00014	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	CaDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.026	0.015	0.04	J,B	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	CdDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.00003	0.00003	0.00008	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	CuDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.00043	0.00043	0.001	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	FeDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.012	0.012	0.05	U	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	Hard	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.084	0.054	0.14	J	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	MgDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.0045	0.0039	0.01	J	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	MoDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.000081	0.000081	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	PbDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.000043	0.000043	0.0001	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754583	ZnDis	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.0023	0.0023	0.005	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	AgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.00016	0.00016	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	AlDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.008	0.008	0.02	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	AsDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.000083	0.000083	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	CaDis	2021-07-08	EPA 200.8	2021-07-21	EPA 200.8	0.023	0.018	0.04	J	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	CdDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.000016	0.000016	0.00008	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	CuDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.0005	0.0005	0.001	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	FeDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.012	0.012	0.05	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	Hard	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.078	0.06	0.14	J	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	MgDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.0048	0.0034	0.01	J,B	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	MoDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.000094	0.000094	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	PbDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.000028	0.000028	0.0001	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754584	ZnDis	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.002	0.002	0.005	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	AgTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.00016	0.00016	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	AlTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.008	0.008	0.02	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	AsTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.000083	0.000083	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	CdTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.000016	0.000016	0.00008	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	CuTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.0005	0.0005	0.001	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	FeTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.012	0.012	0.05	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	MoTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.00012	0.000094	0.0005	J	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	PbTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.000092	0.000028	0.0001	J	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754586	ZnTR	2021-07-08	EPA 200.8	2021-07-20	EPA 200.8	0.002	0.002	0.005	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	AgTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.000077	0.000077	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	AlTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.0071	0.0071	0.02	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	AsTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.00014	0.00014	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	CdTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.00003	0.00003	0.00008	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	CuTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.00043	0.00043	0.001	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	FeTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.012	0.012	0.05	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	MoTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.000081	0.000081	0.0005	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	PbTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.000089	0.000043	0.0001	J	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754587	ZnTR	2021-07-08	EPA 200.8	2021-07-15	EPA 200.8	0.0023	0.0023	0.005	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754590	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	0.000045	0.000045	0.0002	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754591	HgDis	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	0.000045	0.000045	0.0002	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754596	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	0.000045	0.000045	0.0002	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754597	HgTR	2021-07-08	EPA 245.1	2021-07-13	EPA 245.1	0.000045	0.000045	0.0002	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754657	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	5	5	10	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754657	TDS	2021-07-08	METHOD	2021-07-08	SM 2540C	5	5	10	J	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754659	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	5	5	10	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754659	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	5	5	10	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	754822	NO3/NO2-N	2021-07-08	METHOD	2021-07-08	SM 4500-NO3-H	0.082	0.078	0.2	J,B	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	754823	NO3/NO2-N	2021-07-09	METHOD	2021-07-09	SM 4500-NO3-H	0.08	0.078	0.2	J,B	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	755361	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	0.03	0.03	0.1	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	755460	NH3-N	2021-07-12	METHOD	2021-07-12	EPA 350.1	0.03	0.03	0.1	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	755610	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	0.05	0.05	0.1	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	755610	P	2021-07-13	SM4500-P-B	2021-07-16	SM 4500-P-F	0.15	0.05	0.1		

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	756647	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	2.6	1.2	2.5		
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	756647	SO4	2021-07-16	METHOD	2021-07-16	ASTM D516-90-02	1.2	1.2	2.5	U	
10568665	PACE_MPLS	SWQC	SWWW0146-070621	10568665014	2021-07-06	FB	756739	ALK_CaCO3	2021-07-16	METHOD	2021-07-16	SM 2320B	1.8	1.8	5	U	
10568665	PACE_MPLS	SWQC	SWWW0156-070621	10568665024	2021-07-06	FB	756739	ALK_CaCO3	2021-07-16	METHOD	2021-07-16	SM 2320B	1.8	1.8	5	U	
10572927	PACE_LEN	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	737476	DOC	2021-08-11	METHOD	2021-08-11	SM 5310C	0.36	0.3	1	J	
10572927	PACE_LEN	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	737973	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	0.48	0.48	0.5	U	
10572927	PACE_LEN	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	737974	TKN	2021-08-16	METHOD	2021-08-16	EPA 351.2	0.48	0.48	0.5	U	
10572927	PACE_LEN	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	738148	DOC	2021-08-16	METHOD	2021-08-16	SM 5310C	0.69	0.3	1	J	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.00016	0.00016	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.008	0.008	0.02	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.000083	0.000083	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.039	0.018	0.04	J	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.000016	0.000016	0.00008	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.0005	0.0005	0.001	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.012	0.012	0.05	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.11	0.06	0.14	J	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.0042	0.0034	0.01	J,B	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.000094	0.000094	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.000046	0.000028	0.0001	J	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761395	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.002	0.002	0.005	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	AgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.00016	0.00016	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	AlDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.008	0.008	0.02	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	AsDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.000083	0.000083	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	CaDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.022	0.018	0.04	J	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	CdDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.000016	0.000016	0.00008	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	CuDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.0005	0.0005	0.001	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	FeDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.012	0.012	0.05	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	Hard	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.073	0.06	0.14	J	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	MgDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.004	0.0034	0.01	J	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	MoDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.000094	0.000094	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	PbDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.000039	0.000028	0.0001	J	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761396	ZnDis	2021-08-06	EPA 200.8	2021-08-16	EPA 200.8	0.002	0.002	0.005	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	AgTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	0.00016	0.00016	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	AlTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	0.008	0.008	0.02	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	AsTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	0.000083	0.000083	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	CdTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	0.000016	0.000016	0.00008	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	CuTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	0.0005	0.0005	0.001	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	FeTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	0.012	0.012	0.05	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	MoTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	0.000094	0.000094	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	PbTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	0.000088	0.000028	0.0001	J	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761404	ZnTR	2021-08-06	EPA 200.8	2021-08-10	EPA 200.8	0.002	0.002	0.005	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	AgTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	0.00016	0.00016	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	AlTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	0.008	0.008	0.02	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	AsTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	0.000083	0.000083	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	CdTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	0.000016	0.000016	0.00008	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	CuTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	0.0005	0.0005	0.001	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	FeTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	0.012	0.012	0.05	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	MoTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	0.000094	0.000094	0.0005	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	PbTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	0.000094	0.000028	0.0001	J	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761405	ZnTR	2021-08-06	EPA 200.8	2021-08-09	EPA 200.8	0.002	0.002	0.005	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761414	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	0.000045	0.000045	0.0002	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761415	HgDis	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	0.000045	0.000045	0.0002	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761563	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	0.000045	0.000045	0.0002	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761565	HgTR	2021-08-06	EPA 245.1	2021-08-09	EPA 245.1	0.000045	0.000045	0.0002	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761620	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	5	5	10	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761621	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	5	5	10	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761626	TDS	2021-08-06	METHOD	2021-08-06	SM 2540C	5	5	10	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761627	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	5	5	10	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	761838	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	0.078	0.078	0.2	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	761840	NO3/NO2-N	2021-08-06	METHOD	2021-08-06	SM 4500-NO3-H	0.078	0.078	0.2	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	762774	SO4	2021-08-12	METHOD	2021-08-12	ASTM D516-90-02	1.2	1.2	2.5	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	763057	ALK_CaCO3	2021-08-12	METHOD	2021-08-12	SM 2320B	1.8	1.8	5	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	763351	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90-02	1.2	1.2	2.5	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	763364	ALK_CaCO3	2021-08-13	METHOD	2021-08-13	SM 2320B	1.8	1.8	5	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	763544	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	0.065	0.03	0.1	J	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	763544	NH3-N	2021-08-15	METHOD	2021-08-15	EPA 350.1	0.03	0.03	0.1	U	
10572927	PACE_MPLS	SWQC	SWWW0190-080221	10572927014	2021-08-02	FB	763942	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	0.05	0.05	0.1	U	
10572927	PACE_MPLS	SWQC	SWWW0200-080321	10572927024	2021-08-03	FB	763942	P	2021-08-17	SM4500-P-B	2021-08-18	SM 4500-P-F	0.05	0.05	0.1	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763427	TDS	2021-08-16	METHOD	2021-08-16	SM 2540C	5	5	10	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763432	TSS	2021-08-16	METHOD	2021-08-16	SM 2540D	5	5	10	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763568	TDS	2021-08-15	METHOD	2021-08-15	SM 2540C	5	5	10	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763619	TSS	2021-08-16	METHOD	2021-08-16	SM 2540D	5	5	10	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	AgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.00016	0.00016	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	AlDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.008	0.008	0.02	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.000083	0.000083	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	CaDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.018	0.018	0.04	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.000016	0.000016	0.00008	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.0005	0.0005	0.001	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.012	0.012	0.05	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	Hard	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.06	0.06	0.14	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	MgDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.0034	0.0034	0.01	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	MoDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.000094	0.000094	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.000028	0.000028	0.0001	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763825	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	0.002	0.002	0.005	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	AgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.00016	0.00016	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	AlDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.008	0.008	0.02	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.000083	0.000083	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	CaDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.04	0.018	0.04		
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.000016	0.000016	0.00008	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.0005	0.0005	0.001	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.012	0.012	0.05	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	Hard	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.13	0.06	0.14	J	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	MgDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.0084	0.0034	0.01	J	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	MoDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.000094	0.000094	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.000028	0.000028	0.0001	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763826	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	0.002	0.002	0.005	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763829	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	0.000045	0.000045	0.0002	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763830	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	0.000045	0.000045	0.0002	U	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	AgTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	0.00016	0.00016	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	AlTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	0.008	0.008	0.02	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	0.000083	0.000083	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	0.000016	0.000016	0.00008	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	0.00057	0.0005	0.001	J	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	0.012	0.012	0.05	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	MoTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	0.000094	0.000094	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	0.000083	0.000028	0.0001	J	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763883	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	0.002	0.002	0.005	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	763891	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	0.000045	0.000045	0.0002	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	763892	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	0.000045	0.000045	0.0002	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	764632	SO4	2021-08-23	METHOD	2021-08-23	ASTM D516-90-02	1.6	1.2	2.5	J	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	764633	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90-02	1.2	1.2	2.5	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	765009	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	1.8	1.8	5	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	765009	ALK_CaCO3	2021-08-20	METHOD	2021-08-20	SM 2320B	1.8	1.8	5	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	765249	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	0.078	0.078	0.2	U	
10574117	PACE_MPLS	SWQC	SWWW0256-081021	10574117036	2021-08-10	FB	765250	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	0.078	0.078	0.2	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	AgTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	0.00016	0.00016	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	AlTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	0.008	0.008	0.02	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	AsTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	0.000083	0.000083	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	CdTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	0.000016	0.000016	0.00008	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	CuTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	0.0005	0.0005	0.001	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	FeTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	0.012	0.012	0.05	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	MoTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	0.000094	0.000094	0.0005	U	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	PbTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	0.000064	0.000028	0.0001	J	
10574117	PACE_MPLS	SWQC	SWWW0234-080921	10574117014	2021-08-09	FB	767016	ZnTR	2021-08-31	EPA 200.8	2021-09-01	EPA 200.8	0.002	0.002	0.005	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765046	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	5	5	10	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765046	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	5	5	10	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	0.00016	0.00016	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	AgTR	2021-08-24	EPA 200.8	2021-08-30	EPA 200.8	0.00016	0.00016	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.008	0.008	0.02	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	AlTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.008	0.008	0.02	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.000083	0.000083	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	AsTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.000083	0.000083	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.000016	0.000016	0.00008	J,B	UJ
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	CdTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.000016	0.000016	0.00008	J,B	UJ
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.0005	0.0005	0.001	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	CuTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.0005	0.0005	0.001	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.012	0.012	0.05	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	FeTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.012	0.012	0.05	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.000094	0.000094	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	MoTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.000094	0.000094	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.00012	0.000028	0.0001		
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	PbTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.00012	0.000028	0.0001		
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765155	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.002	0.002	0.005	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765155	ZnTR	2021-08-24	EPA 200.8	2021-08-27	EPA 200.8	0.002	0.002	0.005	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	AgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.00016	0.00016	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	AgDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	0.00016	0.00016	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	AlDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.008	0.008	0.02	U	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	AlDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	0.008	0.008	0.02	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	AsDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.000083	0.000083	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	0.000083	0.000083	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	0.026	0.018	0.04	J	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	CaDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	0.018	0.018	0.04	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	CdDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.000016	0.000016	0.00008	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	0.000016	0.000016	0.00008	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	CuDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.0005	0.0005	0.001	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	0.0005	0.0005	0.001	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	FeDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.012	0.012	0.05	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	0.012	0.012	0.05	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	Hard	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.077	0.06	0.14	J	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	Hard	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	0.06	0.06	0.14	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	MgDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.0034	0.0034	0.01	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	MgDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	0.0034	0.0034	0.01	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	MoDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.000094	0.000094	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	MoDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	0.000094	0.000094	0.0005	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	PbDis	2021-08-25	EPA 200.8	2021-08-25	EPA 200.8	0.000028	0.000028	0.0001	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	0.000028	0.000028	0.0001	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765159	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	0.002	0.002	0.005	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765159	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	0.002	0.002	0.005	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765186	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	0.000045	0.000045	0.0002	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765186	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	0.000045	0.000045	0.0002	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765190	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	0.000045	0.000045	0.0002	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765190	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	0.000045	0.000045	0.0002	U	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765361	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	0.084	0.078	0.2	J	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765362	NO3/NO2-N	2021-08-23	METHOD	2021-08-23	SM 4500-NO3-H	0.078	0.078	0.2	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	765772	TDS	2021-08-25	METHOD	2021-08-25	SM 2540C	5	5	10	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	765772	TDS	2021-08-25	METHOD	2021-08-25	SM 2540C	9	5	10	J	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	767175	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	1.8	1.8	5	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	767175	ALK_CaCO3	2021-08-31	METHOD	2021-08-31	SM 2320B	1.8	1.8	5	U	
10575368	PACE_MPLS	SWQC	SWWW0274-081921	10575368010	2021-08-19	FB	767229	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	1.2	1.2	2.5	U	
10575368	PACE_MPLS	SWQC	SWWW0284-081921	10575368020	2021-08-19	FB	767229	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90-02	1.2	1.2	2.5	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766440	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	5	5	10	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766443	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	5	5	10	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766444	TDS	2021-08-27	METHOD	2021-08-27	SM 2540C	5	5	10	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766445	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	5	5	10	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766486	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	0.000045	0.000045	0.0002	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766487	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	0.000045	0.000045	0.0002	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766492	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	0.000045	0.000045	0.0002	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766493	HgTR	2021-08-30	EPA 245.1	2021-09-07	EPA 245.1	0.000045	0.000045	0.0002	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	AgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.00016	0.00016	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	AlDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.008	0.008	0.02	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.000083	0.000083	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	CaDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.018	0.018	0.04	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.000016	0.000016	0.00008	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.0005	0.0005	0.001	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.012	0.012	0.05	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	Hard	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.06	0.06	0.14	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	MgDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.0034	0.0034	0.01	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	MoDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.000094	0.000094	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.000028	0.000028	0.0001	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	766501	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	0.002	0.002	0.005	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	AgTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	0.00016	0.00016	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	AlTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	0.008	0.008	0.02	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	AsTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	0.000083	0.000083	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	CdTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	0.000016	0.000016	0.00008	U	

Table A6c. BPSOU 2021 Wet Weather Flow Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	CuTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	0.0005	0.0005	0.001	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	FeTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	0.012	0.012	0.05	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	MoTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	0.000094	0.000094	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	PbTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	0.00009	0.000028	0.0001	J	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	766508	ZnTR	2021-08-30	EPA 200.8	2021-08-31	EPA 200.8	0.002	0.002	0.005	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	767917	ALK_CaCO3	2021-09-02	METHOD	2021-09-02	SM 2320B	2.2	1.8	5	J,B	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768071	ALK_CaCO3	2021-09-03	METHOD	2021-09-03	SM 2320B	1.8	1.8	5	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	AgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.00016	0.00016	0.0005	U,L1	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	AlDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.008	0.008	0.02	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	AsDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.000083	0.000083	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	CaDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.018	0.018	0.04	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	CdDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.000016	0.000016	0.00008	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	CuDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.0005	0.0005	0.001	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	FeDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.012	0.012	0.05	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	Hard	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.066	0.06	0.14	J	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	MgDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.0073	0.0034	0.01	J,B	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	MoDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.000094	0.000094	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	PbDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.000028	0.000028	0.0001	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768140	ZnDis	2021-09-07	EPA 200.8	2021-09-09	EPA 200.8	0.002	0.002	0.005	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	AgTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	0.00016	0.00016	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	AlTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	0.008	0.008	0.02	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	AsTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	0.000083	0.000083	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	CdTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	0.000017	0.000016	0.00008	J	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	CuTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	0.0005	0.0005	0.001	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	FeTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	0.012	0.012	0.05	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	MoTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	0.000094	0.000094	0.0005	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	PbTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	0.000083	0.000028	0.0001	J	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768142	ZnTR	2021-09-07	EPA 200.8	2021-09-07	EPA 200.8	0.002	0.002	0.005	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	768420	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	1.2	1.2	2.5	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	768422	SO4	2021-09-07	METHOD	2021-09-07	ASTM D516-90-02	1.2	1.2	2.5	U	
10576060	PACE_MPLS	SWQC	SWWW0306-082421	10576060014	2021-08-24	FB	769076	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	0.078	0.078	0.2	U	
10576060	PACE_MPLS	SWQC	SWWW0328-082421	10576060036	2021-08-24	FB	769077	NO3/NO2-N	2021-09-09	METHOD	2021-09-09	SM 4500-NO3-H	0.078	0.078	0.2	U	

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	AgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	AgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.05	0.051	0.000077	0.0005	mg/L	103	0	85	115	0
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	AgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.00012	0.05	0.052	0.000077	0.0005	mg/L	104	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	AgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.00012	0.05	0.054	0.000077	0.0005	mg/L	107	3	70	130	20
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	AgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	0.000023	0.05	0.048	0.000077	0.0005	mg/L	97	0	70	130	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	INITIAL	AgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:13	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	AgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	0.05	0.055	0.000077	0.0005	mg/L	109	0	85	115	0
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	AgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	0.00011	0.05	0.053	0.000077	0.0005	mg/L	107	0	70	130	0
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	AgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	0.000022	0.05	0.054	0.000077	0.0005	mg/L	109	0	70	130	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	AgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	0.000022	0.05	0.053	0.000077	0.0005	mg/L	106	3	70	130	20
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	AgDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	0.000012	0.05	0.05	0.000077	0.0005	mg/L	101	0	70	130	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	AgDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	AgDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.05	0.053	0.000077	0.0005	mg/L	105	0	85	115	0
10562380	747422_10562380	3986685BLANK_10562380	3986685		MB	INITIAL	AgTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:46	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562380	747422_10562380	SWWW0011-052321MS	3986688	SWWW0011-052321	MS	INITIAL	AgTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:53	EPA 200.8	0.000089	0.05	0.051	0.000077	0.0005	mg/L	101	0	70	130	0
10562380	747422_10562380	SWWW0002-052321MSD	3986687	SWWW0002-052321	MSD	INITIAL	AgTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:06	EPA 200.8	0.00023	0.05	0.054	0.000077	0.0005	mg/L	108	1	70	130	20
10562380	747422_10562380	SWWW0002-052321MS	3986686	SWWW0002-052321	MS	INITIAL	AgTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:03	EPA 200.8	0.00023	0.05	0.054	0.000077	0.0005	mg/L	107	0	70	130	0
10562380	747422_10562380	3988016LCS_10562380	3988016		LCS	INITIAL	AgTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:50	EPA 200.8	0	0.05	0.055	0.000077	0.0005	mg/L	110	0	85	115	0
10562380	747423_10562380	3986689BLANK_10562380	3986689		MB	INITIAL	AgTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:30	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562380	747423_10562380	3986690LCS_10562380	3986690		LCS	REANALYSIS	AgTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-11 11:31	EPA 200.8	0	0.05	0.056	0.000077	0.0005	mg/L	112	0	85	115	0
10562380	747423_10562380	SWWW0021-052321MS	3986691	SWWW0021-052321	MS	DILUTION	AgTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-11 11:36	EPA 200.8	0.00013	0.05	0.057	0.000077	0.0005	mg/L	113	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MS	3986692	SWWW0027-052321	MS	DILUTION	AgTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-11 12:00	EPA 200.8	0.000023	0.05	0.0083	0.000077	0.0005	mg/L	17	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MSD	3986693	SWWW0027-052321	MSD	DILUTION	AgTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-11 12:03	EPA 200.8	0.000023	0.05	0.0077	0.000077	0.0005	mg/L	15	9	70	130	20
10562380	747490_10562380	SWWW0041-052321MS	3987089	SWWW0041-052321	MS	INITIAL	AgTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 12:18	EPA 200.8	0.00063	0.05	0.054	0.00038	0.0025	mg/L	106	0	70	130	0
10562380	747490_10562380	3987087BLANK_10562380	3987087		MB	INITIAL	AgTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562380	747490_10562380	3987088LCS_10562380	3987088		LCS	INITIAL	AgTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.05	0.057	0.000077	0.0005	mg/L	113	0	85	115	0
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	AlDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.022	2	2	0.0071	0.02	mg/L	100	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	AlDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.022	2	2.1	0.0071	0.02	mg/L	103	3	70	130	20
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	AlDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	0.01	2	1.9	0.0071	0.02	mg/L	94	0	70	130	0
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	AlDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	2	2	0.0071	0.02	mg/L	99	0	85	115	0
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	AlDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	REANALYSIS	AlDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-14 09:07	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	AlDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	2	1.9	0.0071	0.02	mg/L	96	0	85	115	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	AlDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	0.014	2	1.9	0.0071	0.02	mg/L	93	3	70	130	20
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	AlDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	0.014	2	1.9	0.0071	0.02	mg/L	96	0	70	130	0
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	AlDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	0.014	2	1.9	0.0071	0.02	mg/L	94	0	70	130	0
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	AlDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	0.0092	2	1.9	0.0071	0.02	mg/L	93	0	70	130	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	AlDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.0099	0.0071	0.02	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	AlDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	2	1.9	0.0071	0.02	mg/L	95	0	85	115	0
10562380	746235_10562380	SWWW0002-052321MS	3980610	SWWW0002-052321	MS	INITIAL	ALK_CaCO3	T	1	2021-06-03 06:21	METHOD	2021-06-03 06:21	SM 2320B	64.3	40	106	2	5	mg/L	103	0	80	120	0
10562380	746235_10562380	SWWW0002-052321MSD	3980611	SWWW0002-052321	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-03 06:26	METHOD	2021-06-03 06:26	SM 2320B	64.3	40	106	2	5	mg/L	103	0	80	120	20
10562380	746235_10562380	3980605BLANK_10562380	3980605		MB	INITIAL	ALK_CaCO3	T	1	2021-06-03 03:55	METHOD	2021-06-03 03:55	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562380	746235_10562380	3980606LCS_10562380	3980606		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-03 03:58	METHOD	2021-06-03 03:58	SM 2320B	0	40	43	2	5	mg/L	108	0	90	110	0
10562380	746235_10562380	3980607LCSD_10562380	3980607	3980606LCS_10562380	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-03 04:02	METHOD	2021-06-03 04:02	SM 2320B	0	40	42.9	2	5	mg/L	107	0	90	110	20
10562380	746308_10562380	3980822BLANK_10562380	3980822		MB	INITIAL	ALK_CaCO3	T	1	2021-06-03 08:10	METHOD	2021-06-03 08:10	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562380	746308_10562380	3980823LCS_10562380	3980823		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-03 08:13	METHOD	2021-06-03 08:13	SM 2320B	0	40	43.2	2	5	mg/L	108	0	90	110	0
10562380	746308_10562380	3980824LCSD_10562380	3980824	3980823LCS_10562380	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-03 08:16	METHOD	2021-06-03 08:16	SM 2320B	0	40	43.2	2	5	mg/L	108	0	90	110	20
10562380	746834_10562380	3983924BLANK_10562380	3983924		MB	INITIAL	ALK_CaCO3	T	1	2021-06-04 04:14	METHOD	2021-06-04 04:14	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562380	746834_10562380	3983925LCS_10562380	3983925		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-04 04:17	METHOD	2021-06-04 04:17	SM 2320B	0	40	42.9	2	5	mg/L	107	0	90	110	0
10562380	746834_10562380	3983926LCSD_10562380	3983926	3983925LCS_10562380	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-04 04:20	METHOD	2021-06-04 04:20	SM 2320B	0	40	42.8	2	5	mg/L	107	0	90	110	20
10562380	746834_10562380	SWWW0018-052321MS	3983927	SWWW0018-052321	MS	INITIAL	ALK_CaCO3	T	1	2021-06-04 04:29	METHOD	2021-06-04 04:29	SM 2320B	88.1	40	124	2	5	mg/L	90	0	80	120	0
10562380	746834_10562380	SWWW0018-052321MSD	3983928	SWWW0018-052321	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-04 04:36	METHOD	2021-06-04 04:36	SM 2320B	88.1	40	125	2	5	mg/L	92	1	80	120	20

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562380	746834_10562380	SWWW0027-052321MSD	3983930	SWWW0027-052321	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-04 05:40	METHOD	2021-06-04 05:40	SM 2320B	81.7	40	122	2	5	mg/L	101	0	80	120	20
10562380	746834_10562380	SWWW0027-052321MS	3983929	SWWW0027-052321	MS	INITIAL	ALK_CaCO3	T	1	2021-06-04 05:35	METHOD	2021-06-04 05:35	SM 2320B	81.7	40	122	2	5	mg/L	100	0	80	120	0
10562380	746892_10562380	SWWW0019-052321MS	3984185	SWWW0019-052321	MS	INITIAL	ALK_CaCO3	T	1	2021-06-04 07:03	METHOD	2021-06-04 07:03	SM 2320B	61.8	40	102	2	5	mg/L	101	0	80	120	0
10562380	746892_10562380	SWWW0019-052321MSD	3984186	SWWW0019-052321	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-04 07:08	METHOD	2021-06-04 07:08	SM 2320B	61.8	40	103	2	5	mg/L	102	0	80	120	20
10562380	746892_10562380	3984182BLANK_10562380	3984182		MB	INITIAL	ALK_CaCO3	T	1	2021-06-04 06:44	METHOD	2021-06-04 06:44	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562380	746892_10562380	3984183LCS_10562380	3984183		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-04 06:47	METHOD	2021-06-04 06:47	SM 2320B	0	40	42.8	2	5	mg/L	107	0	90	110	0
10562380	746892_10562380	3984184LCSD_10562380	3984184	3984183LCS_10562380	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-04 07:37	METHOD	2021-06-04 07:37	SM 2320B	0	40	43.5	2	5	mg/L	109	1	90	110	20
10562380	747361_10562380	3986456BLANK_10562380	3986456		MB	INITIAL	ALK_CaCO3	T	1	2021-06-08 02:32	METHOD	2021-06-08 02:32	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562380	747361_10562380	3986457LCS_10562380	3986457		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-08 02:36	METHOD	2021-06-08 02:36	SM 2320B	0	40	43.4	2	5	mg/L	108	0	90	110	0
10562380	747361_10562380	3986458LCSD_10562380	3986458	3986457LCS_10562380	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-08 02:39	METHOD	2021-06-08 02:39	SM 2320B	0	40	43.1	2	5	mg/L	108	1	90	110	20
10562380	747422_10562380	3986685BLANK_10562380	3986685		MB	INITIAL	AlTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:46	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562380	747422_10562380	SWWW0011-052321MS	3986688	SWWW0011-052321	MS	INITIAL	AlTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:53	EPA 200.8	1.1	2	3	0.0071	0.02	mg/L	98	0	70	130	0
10562380	747422_10562380	SWWW0002-052321MSD	3986687	SWWW0002-052321	MSD	INITIAL	AlTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:06	EPA 200.8	2.6	2	5.2	0.0071	0.02	mg/L	128	2	70	130	20
10562380	747422_10562380	SWWW0002-052321MS	3986686	SWWW0002-052321	MS	INITIAL	AlTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:03	EPA 200.8	2.6	2	5.1	0.0071	0.02	mg/L	122	0	70	130	0
10562380	747422_10562380	3988016LCS_10562380	3988016		LCS	INITIAL	AlTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:50	EPA 200.8	0	2	2.2	0.0071	0.02	mg/L	111	0	85	115	0
10562380	747423_10562380	3986689BLANK_10562380	3986689		MB	INITIAL	AlTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:30	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562380	747423_10562380	3986690LCS_10562380	3986690		LCS	INITIAL	AlTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:33	EPA 200.8	0	2	2.1	0.0071	0.02	mg/L	107	0	85	115	0
10562380	747423_10562380	SWWW0027-052321MSD	3986693	SWWW0027-052321	MSD	INITIAL	AlTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:15	EPA 200.8	0.56	2	2.6	0.036	0.1	mg/L	103	1	70	130	20
10562380	747423_10562380	SWWW0027-052321MS	3986692	SWWW0027-052321	MS	INITIAL	AlTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:12	EPA 200.8	0.56	2	2.6	0.036	0.1	mg/L	101	0	70	130	0
10562380	747423_10562380	SWWW0021-052321MS	3986691	SWWW0021-052321	MS	INITIAL	AlTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 04:39	EPA 200.8	0.73	2	3.2	0.036	0.1	mg/L	124	0	70	130	0
10562380	747490_10562380	SWWW0041-052321MS	3987089	SWWW0041-052321	MS	INITIAL	AlTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 12:18	EPA 200.8	0.84	2	2.9	0.036	0.1	mg/L	105	0	70	130	0
10562380	747490_10562380	3987087BLANK_10562380	3987087		MB	INITIAL	AlTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562380	747490_10562380	3987088LCS_10562380	3987088		LCS	INITIAL	AlTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	2	2.1	0.0071	0.02	mg/L	105	0	85	115	0
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	AsDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.0024	0.1	0.1	0.00014	0.0005	mg/L	101	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	AsDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.0024	0.1	0.1	0.00014	0.0005	mg/L	101	1	70	130	20
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	AsDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	0.004	0.1	0.11	0.00014	0.0005	mg/L	106	0	70	130	0
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	AsDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	AsDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.099	0.00014	0.0005	mg/L	99	0	85	115	0
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	AsDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	104	0	85	115	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	INITIAL	AsDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:13	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	AsDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	0.0053	0.1	0.11	0.00014	0.0005	mg/L	104	3	70	130	20
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	AsDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	0.0022	0.1	0.11	0.00014	0.0005	mg/L	104	0	70	130	0
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	AsDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	0.0053	0.1	0.11	0.00014	0.0005	mg/L	108	0	70	130	0
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	AsDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	0.0028	0.1	0.11	0.00014	0.0005	mg/L	104	0	70	130	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	AsDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	AsDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	101	0	85	115	0
10562380	747422_10562380	3988016LCS_10562380	3988016		LCS	INITIAL	AsTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:50	EPA 200.8	0	0.1	0.11	0.00014	0.0005	mg/L	105	0	85	115	0
10562380	747422_10562380	SWWW0002-052321MS	3986686	SWWW0002-052321	MS	INITIAL	AsTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:03	EPA 200.8	0.005	0.1	0.11	0.00014	0.0005	mg/L	103	0	70	130	0
10562380	747422_10562380	SWWW0011-052321MS	3986688	SWWW0011-052321	MS	INITIAL	AsTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:53	EPA 200.8	0.0074	0.1	0.11	0.00014	0.0005	mg/L	103	0	70	130	0
10562380	747422_10562380	SWWW0002-052321MSD	3986687	SWWW0002-052321	MSD	INITIAL	AsTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:06	EPA 200.8	0.005	0.1	0.11	0.00014	0.0005	mg/L	106	3	70	130	20
10562380	747422_10562380	3986685BLANK_10562380	3986685		MB	INITIAL	AsTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:46	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562380	747423_10562380	3986689BLANK_10562380	3986689		MB	INITIAL	AsTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:30	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562380	747423_10562380	3986690LCS_10562380	3986690		LCS	INITIAL	AsTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:33	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	102	0	85	115	0
10562380	747423_10562380	SWWW0027-052321MS	3986692	SWWW0027-052321	MS	INITIAL	AsTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:12	EPA 200.8	0.0066	0.1	0.11	0.0007	0.0025	mg/L	101	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MSD	3986693	SWWW0027-052321	MSD	INITIAL	AsTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:15	EPA 200.8	0.0066	0.1	0.11	0.0007	0.0025	mg/L	103	1	70	130	20
10562380	747423_10562380	SWWW0021-052321MS	3986691	SWWW0021-052321	MS	INITIAL	AsTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 04:39	EPA 200.8	0.0035	0.1	0.11	0.0007	0.0025	mg/L	111	0	70	130	0
10562380	747490_10562380	SWWW0041-052321MS	3987089	SWWW0041-052321	MS	INITIAL	AsTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 12:18	EPA 200.8	0.005	0.1	0.1	0.0007	0.0025	mg/L	95	0	70	130	0
10562380	747490_10562380	3987088LCS_10562380	3987088		LCS	INITIAL	AsTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.096	0.00014	0.0005	mg/L	96	0	85	115	0
10562380	747490_10562380	3987087BLANK_10562380	3987087		MB	INITIAL	AsTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	CaDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	23	2	23.9	0.015	0.04	mg/L	44	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	CaDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	23	2	24.2	0.015	0.04	mg/L	61	1	70	130	20
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	CaDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	CaDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	2	2.1	0.015	0.04	mg/L	103	0	85	115	0
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	CaDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	165	2	198	0.015	0.04	mg/L	1650	0	70	130	0
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	CaDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	25.7	2	28.5	0.015	0.04	mg/L	141	0	70	130	0
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	CaDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	29.3	2	31	0.015	0.04	mg/L	83	0	70	130	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	CaDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	29.3	2	30.8	0.015	0.04	mg/L	72	1	70	130	20
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	CaDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	2	2.1	0.015	0.04	mg/L	105	0	85	115	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	INITIAL	CaDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:13	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	CaDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	CaDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	2	2.1	0.015	0.04	mg/L	104	0	85	115	0
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	CaDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	123	2	121	0.015	0.04	mg/L	0	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	CdDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.000042	0.1	0.099	0.00003	0.00008	mg/L	99	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	CdDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.000042	0.1	0.1	0.00003	0.00008	mg/L	102	2	70	130	20
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	CdDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	0.000053	0.1	0.098	0.00003	0.00008	mg/L	98	0	70	130	0
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	CdDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.097	0.00003	0.00008	mg/L	97	0	85	115	0
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	CdDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	CdDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	104	0	85	115	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	INITIAL	CdDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:13	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	CdDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	102	3	70	130	20
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	CdDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	0	0.1	0.11	0.00003	0.00008	mg/L	106	0	70	130	0
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	CdDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	0.000013	0.1	0.1	0.00003	0.00008	mg/L	102	0	70	130	0
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	CdDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	0.00008	0.1	0.1	0.00003	0.00008	mg/L	100	0	70	130	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	CdDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	CdDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	101	0	85	115	0
10562380	747422_10562380	3988016LCS_10562380	3988016		LCS	INITIAL	CdTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:50	EPA 200.8	0	0.1	0.11	0.00003	0.00008	mg/L	106	0	85	115	0
10562380	747422_10562380	SWWW0002-052321MS	3986686	SWWW0002-052321	MS	INITIAL	CdTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:03	EPA 200.8	0.00013	0.1	0.1	0.00003	0.00008	mg/L	104	0	70	130	0
10562380	747422_10562380	SWWW0011-052321MS	3986688	SWWW0011-052321	MS	INITIAL	CdTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:53	EPA 200.8	0.00014	0.1	0.1	0.00003	0.00008	mg/L	100	0	70	130	0
10562380	747422_10562380	SWWW0002-052321MSD	3986687	SWWW0002-052321	MSD	INITIAL	CdTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:06	EPA 200.8	0.00013	0.1	0.11	0.00003	0.00008	mg/L	105	2	70	130	20
10562380	747422_10562380	3986685BLANK_10562380	3986685		MB	INITIAL	CdTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:46	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562380	747423_10562380	3986690LCS_10562380	3986690		LCS	INITIAL	CdTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:33	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	103	0	85	115	0
10562380	747423_10562380	3986689BLANK_10562380	3986689		MB	INITIAL	CdTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:30	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562380	747423_10562380	SWWW0021-052321MS	3986691	SWWW0021-052321	MS	INITIAL	CdTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 04:39	EPA 200.8	0.000071	0.1	0.11	0.00015	0.0004	mg/L	109	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MS	3986692	SWWW0027-052321	MS	INITIAL	CdTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:12	EPA 200.8	0.000059	0.1	0.1	0.00015	0.0004	mg/L	102	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MSD	3986693	SWWW0027-052321	MSD	INITIAL	CdTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:15	EPA 200.8	0.000059	0.1	0.1	0.00015	0.0004	mg/L	103	2	70	130	20
10562380	747490_10562380	SWWW0041-052321MS	3987089	SWWW0041-052321	MS	INITIAL	CdTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 12:18	EPA 200.8	0.0002	0.1	0.098	0.00015	0.0004	mg/L	98	0	70	130	0
10562380	747490_10562380	3987088LCS_10562380	3987088		LCS	INITIAL	CdTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	100	0	85	115	0
10562380	747490_10562380	3987087BLANK_10562380	3987087		MB	INITIAL	CdTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	CuDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.0056	0.1	0.11	0.00043	0.001	mg/L	100	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	CuDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.0056	0.1	0.11	0.00043	0.001	mg/L	106	5	70	130	20
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	CuDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	0.0051	0.1	0.1	0.00043	0.001	mg/L	97	0	70	130	0
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	CuDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	CuDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	102	0	85	115	0
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	CuDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	104	0	85	115	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	INITIAL	CuDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:13	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	CuDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	0.0051	0.1	0.1	0.00043	0.001	mg/L	100	4	70	130	20
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	CuDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	0.0051	0.1	0.11	0.00043	0.001	mg/L	104	0	70	130	0
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	CuDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	0.0044	0.1	0.11	0.00043	0.001	mg/L	101	0	70	130	0
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	CuDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	0.0065	0.1	0.1	0.00043	0.001	mg/L	97	0	70	130	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	CuDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	CuDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	103	0	85	115	0
10562380	747422_10562380	3988016LCS_10562380	3988016		LCS	INITIAL	CuTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:50	EPA 200.8	0	0.1	0.11	0.00043	0.001	mg/L	107	0	85	115	0
10562380	747422_10562380	SWWW0002-052321MS	3986686	SWWW0002-052321	MS	INITIAL	CuTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:03	EPA 200.8	0.035	0.1	0.14	0.00043	0.001	mg/L	104	0	70	130	0
10562380	747422_10562380	SWWW0011-052321MS	3986688	SWWW0011-052321	MS	INITIAL	CuTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:53	EPA 200.8	0.028	0.1	0.13	0.00043	0.001	mg/L	97	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562380	747422_10562380	SWWW0002-052321MSD	3986687	SWWW0002-052321	MSD	INITIAL	CuTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:06	EPA 200.8	0.035	0.1	0.14	0.00043	0.001	mg/L	109	4	70	130	20
10562380	747422_10562380	3986685BLANK_10562380	3986685		MB	INITIAL	CuTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:46	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562380	747423_10562380	3986689BLANK_10562380	3986689		MB	INITIAL	CuTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:30	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562380	747423_10562380	3986690LCS_10562380	3986690		LCS	INITIAL	CuTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:33	EPA 200.8	0	0.1	0.11	0.00043	0.001	mg/L	106	0	85	115	0
10562380	747423_10562380	SWWW0021-052321MS	3986691	SWWW0021-052321	MS	INITIAL	CuTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 04:39	EPA 200.8	0.014	0.1	0.13	0.0021	0.005	mg/L	117	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MS	3986692	SWWW0027-052321	MS	INITIAL	CuTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:12	EPA 200.8	0.012	0.1	0.12	0.0021	0.005	mg/L	106	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MSD	3986693	SWWW0027-052321	MSD	INITIAL	CuTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:15	EPA 200.8	0.012	0.1	0.12	0.0021	0.005	mg/L	107	1	70	130	20
10562380	747490_10562380	SWWW0041-052321MS	3987089	SWWW0041-052321	MS	INITIAL	CuTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 12:18	EPA 200.8	0.022	0.1	0.13	0.0021	0.005	mg/L	106	0	70	130	0
10562380	747490_10562380	3987088LCS_10562380	3987088		LCS	INITIAL	CuTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.11	0.00043	0.001	mg/L	106	0	85	115	0
10562380	747490_10562380	3987087BLANK_10562380	3987087		MB	INITIAL	CuTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562380	724848_10562380	SWWW0002-052321DUP	2913370	SWWW0002-052321	LR	INITIAL	DOC	D	1	2021-06-07 11:21	METHOD	2021-06-07 11:21	SM 5310C	5.1	0	5.1	0.3	1	mg/L	0	0	0	0	25
10562380	724848_10562380	SWWW0002-052321MS	2913371	SWWW0002-052321	MS	INITIAL	DOC	D	1	2021-06-07 11:35	METHOD	2021-06-07 11:35	SM 5310C	5.1	5	10.1	0.3	1	mg/L	100	0	80	120	0
10562380	724848_10562380	SWWW0002-052321MSD	2913372	SWWW0002-052321	MSD	INITIAL	DOC	D	1	2021-06-07 11:48	METHOD	2021-06-07 11:48	SM 5310C	5.1	5	10.3	0.3	1	mg/L	104	2	80	120	25
10562380	724848_10562380	2913368BLANK_10562380	2913368		MB	INITIAL	DOC	D	1	2021-06-07 09:35	METHOD	2021-06-07 09:35	SM 5310C	0	0	0.3	0.3	1	mg/L	0	0	0	0	0
10562380	724848_10562380	2913369LCS_10562380	2913369		LCS	INITIAL	DOC	D	1	2021-06-07 09:48	METHOD	2021-06-07 09:48	SM 5310C	0	5	5.3	0.3	1	mg/L	105	0	80	120	0
10562380	724848_10562380	2915000BLANK_10562380	2915000		MB	INITIAL	DOC	D	1	2021-06-10 10:33	METHOD	2021-06-10 10:33	SM 5310C	0	0	0.3	0.3	1	mg/L	0	0	0	0	0
10562380	724848_10562380	2915001LCS_10562380	2915001		LCS	INITIAL	DOC	D	1	2021-06-10 10:46	METHOD	2021-06-10 10:46	SM 5310C	0	5	5.2	0.3	1	mg/L	103	0	80	120	0
10562380	725251_10562380	2914400BLANK_10562380	2914400		MB	INITIAL	DOC	D	1	2021-06-09 05:11	METHOD	2021-06-09 05:11	SM 5310C	0	0	0.3	0.3	1	mg/L	0	0	0	0	0
10562380	725251_10562380	2914401LCS_10562380	2914401		LCS	INITIAL	DOC	D	1	2021-06-09 05:24	METHOD	2021-06-09 05:24	SM 5310C	0	5	4.9	0.3	1	mg/L	97	0	80	120	0
10562380	725251_10562380	SWWW0021-052321DUP	2914403	SWWW0021-052321	LR	INITIAL	DOC	D	1	2021-06-09 06:57	METHOD	2021-06-09 06:57	SM 5310C	4.2	0	4.3	0.3	1	mg/L	0	1	0	0	25
10562380	725251_10562380	SWWW0019-052321MS	2914402	SWWW0019-052321	MS	INITIAL	DOC	D	1	2021-06-09 05:51	METHOD	2021-06-09 05:51	SM 5310C	4.3	5	9.6	0.3	1	mg/L	105	0	80	120	0
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	FeDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	0.019	2	1.9	0.012	0.05	mg/L	96	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	FeDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.19	2	2.3	0.012	0.05	mg/L	106	3	70	130	20
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	FeDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.19	2	2.2	0.012	0.05	mg/L	103	0	70	130	0
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	FeDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	FeDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	REANALYSIS	FeDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-14 09:07	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	FeDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	2	2	0.012	0.05	mg/L	99	0	85	115	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	FeDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	0.13	2	2.1	0.012	0.05	mg/L	97	2	70	130	20
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	FeDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	0.13	2	2.1	0.012	0.05	mg/L	100	0	70	130	0
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	FeDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	0.19	2	2.1	0.012	0.05	mg/L	98	0	70	130	0
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	FeDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	0.034	2	1.9	0.012	0.05	mg/L	95	0	70	130	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	FeDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.014	0.012	0.05	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	FeDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	2	1.9	0.012	0.05	mg/L	97	0	85	115	0
10562380	747422_10562380	3988016LCS_10562380	3988016		LCS	INITIAL	FeTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:50	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	107	0	85	115	0
10562380	747422_10562380	SWWW0002-052321MS	3986686	SWWW0002-052321	MS	INITIAL	FeTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:03	EPA 200.8	2.9	2	5	0.012	0.05	mg/L	108	0	70	130	0
10562380	747422_10562380	SWWW0002-052321MSD	3986687	SWWW0002-052321	MSD	INITIAL	FeTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:06	EPA 200.8	2.9	2	5.3	0.012	0.05	mg/L	121	5	70	130	20
10562380	747422_10562380	SWWW0011-052321MS	3986688	SWWW0011-052321	MS	INITIAL	FeTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:53	EPA 200.8	1.4	2	3.3	0.012	0.05	mg/L	97	0	70	130	0
10562380	747422_10562380	3986685BLANK_10562380	3986685		MB	INITIAL	FeTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:46	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562380	747423_10562380	3986689BLANK_10562380	3986689		MB	INITIAL	FeTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:30	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562380	747423_10562380	3986690LCS_10562380	3986690		LCS	INITIAL	FeTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:33	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	108	0	85	115	0
10562380	747423_10562380	SWWW0021-052321MS	3986691	SWWW0021-052321	MS	INITIAL	FeTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 04:39	EPA 200.8	1.2	2	3.7	0.06	0.25	mg/L	123	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MS	3986692	SWWW0027-052321	MS	INITIAL	FeTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:12	EPA 200.8	0.84	2	2.9	0.06	0.25	mg/L	104	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MSD	3986693	SWWW0027-052321	MSD	INITIAL	FeTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:15	EPA 200.8	0.84	2	2.9	0.06	0.25	mg/L	105	1	70	130	20
10562380	747490_10562380	SWWW0041-052321MS	3987089	SWWW0041-052321	MS	INITIAL	FeTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 12:18	EPA 200.8	1.2	2	3.3	0.06	0.25	mg/L	105	0	70	130	0
10562380	747490_10562380	3987088LCS_10562380	3987088		LCS	INITIAL	FeTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	108	0	85	115	0
10562380	747490_10562380	3987087BLANK_10562380	3987087		MB	INITIAL	FeTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562380	747415_10562380	SWWW0012-052321MS	3986653	SWWW0012-052321	MS	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 12:17	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10562380	747415_10562380	SWWW0002-052321MS	3986651	SWWW0002-052321	MS	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 11:54	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10562380	747415_10562380	SWWW0002-052321MSD	3986652	SWWW0002-052321	MSD	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 11:55	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	2	70	130	20
10562380	747415_10562380	3986649BLANK_10562380	3986649		MB	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 11:48	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562380	747415_10562380	3986650LCS_10562380	3986650		LCS	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 11:49	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562380	747417_10562380	3986660BLANK_10562380	3986660		MB	INITIAL	HgDis	D	1	2021-06-08 08:32	EPA 245.1	2021-06-10 09:40	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562380	747417_10562380	3986661LCS_10562380	3986661		LCS	INITIAL	HgDis	D	1	2021-06-08 08:32	EPA 245.1	2021-06-10 09:41	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	103	0	85	115	0
10562380	747417_10562380	SWWW0027-052321MSD	3986664	SWWW0027-052321	MSD	INITIAL	HgDis	D	1	2021-06-08 08:32	EPA 245.1	2021-06-10 09:59	EPA 245.1	0.00001	0.005	0.0051	0.000045	0.0002	mg/L	102	1	70	130	20
10562380	747417_10562380	SWWW0027-052321MS	3986663	SWWW0027-052321	MS	INITIAL	HgDis	D	1	2021-06-08 08:32	EPA 245.1	2021-06-10 09:57	EPA 245.1	0.00001	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10562380	747417_10562380	SWWW0022-052321MS	3986662	SWWW0022-052321	MS	INITIAL	HgDis	D	1	2021-06-08 08:32	EPA 245.1	2021-06-10 09:45	EPA 245.1	0.00002	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10562380	747486_10562380	SWWW0042-052321MS	3987072	SWWW0042-052321	MS	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 12:41	EPA 245.1	0.00001	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
10562380	747486_10562380	3987070BLANK_10562380	3987070		MB	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 12:35	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562380	747486_10562380	3987071LCS_10562380	3987071		LCS	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 12:36	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	99	0	85	115	0
10562380	747424_10562380	SWWW0002-052321MSD	3986697	SWWW0002-052321	MSD	INITIAL	HgTR	T	1	2021-06-08 08:32	EPA 245.1	2021-06-10 01:17	EPA 245.1	0.00002	0.005	0.0052	0.000045	0.0002	mg/L	103	2	70	130	20
10562380	747424_10562380	SWWW0002-052321MS	3986696	SWWW0002-052321	MS	INITIAL	HgTR	T	1	2021-06-08 08:32	EPA 245.1	2021-06-10 01:15	EPA 245.1	0.00002	0.005	0.0053	0.000045	0.0002	mg/L	105	0	70	130	0
10562380	747424_10562380	SWWW0012-052321MS	3986698	SWWW0012-052321	MS	INITIAL	HgTR	T	1	2021-06-08 08:32	EPA 245.1	2021-06-10 01:39	EPA 245.1	0.00004	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10562380	747424_10562380	3986694BLANK_10562380	3986694		MB	INITIAL	HgTR	T	1	2021-06-08 08:32	EPA 245.1	2021-06-10 01:09	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562380	747424_10562380	3986695LCS_10562380	3986695		LCS	INITIAL	HgTR	T	1	2021-06-08 08:32	EPA 245.1	2021-06-10 01:11	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	0	85	115	0
10562380	747430_10562380	3986699BLANK_10562380	3986699		MB	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 01:56	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562380	747430_10562380	3986700LCS_10562380	3986700		LCS	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 01:58	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	101	0	85	115	0
10562380	747430_10562380	SWWW0027-052321MSD	3986703	SWWW0027-052321	MSD	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 02:16	EPA 245.1	0.00001	0.005	0.0051	0.000045	0.0002	mg/L	102	1	70	130	20
10562380	747430_10562380	SWWW0022-052321MS	3986701	SWWW0022-052321	MS	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 02:02	EPA 245.1	0.00001	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10562380	747430_10562380	SWWW0027-052321MS	3986702	SWWW0027-052321	MS	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 02:14	EPA 245.1	0.00001	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10562380	747492_10562380	SWWW0042-052321MS	3987100	SWWW0042-052321	MS	INITIAL	HgTR	T	1	2021-06-08 06:32	EPA 245.1	2021-06-10 11:17	EPA 245.1	0.00001	0.005	0.0053	0.000045	0.0002	mg/L	107	0	70	130	0
10562380	747492_10562380	3987098BLANK_10562380	3987098		MB	INITIAL	HgTR	T	1	2021-06-08 06:32	EPA 245.1	2021-06-10 11:11	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562380	747492_10562380	3987099LCS_10562380	3987099		LCS	INITIAL	HgTR	T	1	2021-06-08 06:32	EPA 245.1	2021-06-10 11:13	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	107	0	85	115	0
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	MgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	6.5	2	8.1	0.0039	0.01	mg/L	79	0	70	130	0
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	MgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	8.8	2	11.2	0.0039	0.01	mg/L	117	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	MgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	6.5	2	8.3	0.0039	0.01	mg/L	90	3	70	130	20
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	MgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	2	2	0.0039	0.01	mg/L	102	0	85	115	0
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	MgDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	INITIAL	MgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:13	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	MgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	2	2	0.0039	0.01	mg/L	100	0	85	115	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	MgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	8	2	9.8	0.0039	0.01	mg/L	87	2	70	130	20
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	MgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	8	2	9.9	0.0039	0.01	mg/L	95	0	70	130	0
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	MgDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	6.6	2	8.7	0.0039	0.01	mg/L	104	0	70	130	0
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	MgDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	9.5	2	10.9	0.0039	0.01	mg/L	70	0	70	130	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	MgDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	MgDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	2	1.9	0.0039	0.01	mg/L	97	0	85	115	0
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	MoDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.004	0.1	0.11	0.000081	0.0005	mg/L	103	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	MoDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.004	0.1	0.11	0.000081	0.0005	mg/L	104	1	70	130	20
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	MoDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	0.27	0.1	0.39	0.000081	0.0005	mg/L	118	0	70	130	0
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	MoDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	MoDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.099	0.000081	0.0005	mg/L	99	0	85	115	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	INITIAL	MoDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:13	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	MoDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	100	0	85	115	0
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	MoDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	0.0039	0.1	0.1	0.000081	0.0005	mg/L	101	0	70	130	0
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	MoDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	0.0045	0.1	0.11	0.000081	0.0005	mg/L	103	0	70	130	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	MoDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	0.0045	0.1	0.1	0.000081	0.0005	mg/L	99	4	70	130	20
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	MoDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	0.16	0.1	0.26	0.000081	0.0005	mg/L	94	0	70	130	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	MoDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.00023	0.000081	0.0005	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	MoDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.097	0.000081	0.0005	mg/L	97	0	85	115	0
10562380	747422_10562380	3986685BLANK_10562380	3986685		MB	INITIAL	MoTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:46	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562380	747422_10562380	SWWW0011-052321MS	3986688	SWWW0011-052321	MS	INITIAL	MoTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:53	EPA 200.8	0.31	0.1	0.4	0.000081	0.0005	mg/L	92	0	70	130	0
10562380	747422_10562380	SWWW0002-052321MSD	3986687	SWWW0002-052321	MSD	INITIAL	MoTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:06	EPA 200.8	0.0043	0.1	0.11	0.000081	0.0005	mg/L	106	3	70	130	20
10562380	747422_10562380	SWWW0002-052321MS	3986686	SWWW0002-052321	MS	INITIAL	MoTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:03	EPA 200.8	0.0043	0.1	0.11	0.000081	0.0005	mg/L	103	0	70	130	0
10562380	747422_10562380	3988016LCS_10562380	3988016		LCS	INITIAL	MoTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:50	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	104	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562380	747423_10562380	3986689BLANK_10562380	3986689		MB	INITIAL	MoTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:30	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562380	747423_10562380	3986690LCS_10562380	3986690		LCS	INITIAL	MoTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:33	EPA 200.8	0	0.1	0.11	0.000081	0.0005	mg/L	105	0	85	115	0
10562380	747423_10562380	SWWW0027-052321MSD	3986693	SWWW0027-052321	MSD	INITIAL	MoTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:15	EPA 200.8	0.0042	0.1	0.1	0.0004	0.0025	mg/L	100	1	70	130	20
10562380	747423_10562380	SWWW0021-052321MS	3986691	SWWW0021-052321	MS	INITIAL	MoTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 04:39	EPA 200.8	0.0043	0.1	0.11	0.0004	0.0025	mg/L	109	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MS	3986692	SWWW0027-052321	MS	INITIAL	MoTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:12	EPA 200.8	0.0042	0.1	0.1	0.0004	0.0025	mg/L	99	0	70	130	0
10562380	747490_10562380	SWWW0041-052321MS	3987089	SWWW0041-052321	MS	INITIAL	MoTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 12:18	EPA 200.8	0.17	0.1	0.28	0.0004	0.0025	mg/L	107	0	70	130	0
10562380	747490_10562380	3987087BLANK_10562380	3987087		MB	INITIAL	MoTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562380	747490_10562380	3987088LCS_10562380	3987088		LCS	INITIAL	MoTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	105	0	85	115	0
10562380	746225_10562380	SWWW0002-052321MSD	3980424	SWWW0002-052321	MSD	INITIAL	NH3-N	T	1	2021-06-03 11:51	METHOD	2021-06-03 11:51	EPA 350.1	0	2.5	2.6	0.03	0.1	mg/L	102	15	90	110	20
10562380	746225_10562380	SWWW0002-052321MS	3980423	SWWW0002-052321	MS	INITIAL	NH3-N	T	1	2021-06-03 11:49	METHOD	2021-06-03 11:49	EPA 350.1	0	2.5	3	0.03	0.1	mg/L	118	0	90	110	0
10562380	746225_10562380	3980419BLANK_10562380	3980419		MB	INITIAL	NH3-N	T	1	2021-06-03 11:23	METHOD	2021-06-03 11:23	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10562380	746225_10562380	3980420LCS_10562380	3980420		LCS	INITIAL	NH3-N	T	1	2021-06-03 11:25	METHOD	2021-06-03 11:25	EPA 350.1	0	2.5	2.4	0.03	0.1	mg/L	97	0	90	110	0
10562380	746352_10562380	3981032BLANK_10562380	3981032		MB	INITIAL	NH3-N	T	1	2021-06-03 12:11	METHOD	2021-06-03 12:11	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10562380	746352_10562380	3981033LCS_10562380	3981033		LCS	INITIAL	NH3-N	T	1	2021-06-03 12:15	METHOD	2021-06-03 12:15	EPA 350.1	0	2.5	2.5	0.03	0.1	mg/L	100	0	90	110	0
10562380	746352_10562380	SWWW0021-052321MS	3981034	SWWW0021-052321	MS	INITIAL	NH3-N	T	1	2021-06-03 12:35	METHOD	2021-06-03 12:35	EPA 350.1	0.015	2.5	2.6	0.03	0.1	mg/L	104	0	90	110	0
10562380	746352_10562380	SWWW0021-052321MSD	3981035	SWWW0021-052321	MSD	INITIAL	NH3-N	T	1	2021-06-03 12:36	METHOD	2021-06-03 12:36	EPA 350.1	0.015	2.5	2.4	0.03	0.1	mg/L	97	7	90	110	20
10562380	747840_10562380	SWWW0022-052321MS	3988707	SWWW0022-052321	MS	INITIAL	NH3-N	T	1	2021-06-09 04:20	METHOD	2021-06-09 04:20	EPA 350.1	0.028	2.5	2.5	0.03	0.1	mg/L	98	0	90	110	0
10562380	747840_10562380	SWWW0022-052321MSD	3988708	SWWW0022-052321	MSD	INITIAL	NH3-N	T	1	2021-06-09 04:25	METHOD	2021-06-09 04:25	EPA 350.1	0.028	2.5	2.5	0.03	0.1	mg/L	98	0	90	110	20
10562380	747840_10562380	3988705BLANK_10562380	3988705		MB	INITIAL	NH3-N	T	1	2021-06-09 04:16	METHOD	2021-06-09 04:16	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10562380	747840_10562380	3988706LCS_10562380	3988706		LCS	INITIAL	NH3-N	T	1	2021-06-09 04:18	METHOD	2021-06-09 04:18	EPA 350.1	0	2.5	2.5	0.03	0.1	mg/L	100	0	90	110	0
10562380	746625_10562380	SWWW0002-052321MS	3982563	SWWW0002-052321	MS	INITIAL	NO3/NO2-N	T	1	2021-06-04 10:05	METHOD	2021-06-04 10:05	SM 4500-NO3-H	0.53	2.5	3	0.078	0.2	mg/L	101	0	80	120	0
10562380	746625_10562380	SWWW0002-052321MSD	3982564	SWWW0002-052321	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-04 10:08	METHOD	2021-06-04 10:08	SM 4500-NO3-H	0.53	2.5	3.1	0.078	0.2	mg/L	104	3	80	120	20
10562380	746625_10562380	3982559BLANK_10562380	3982559		MB	INITIAL	NO3/NO2-N	T	1	2021-06-04 09:31	METHOD	2021-06-04 09:31	SM 4500-NO3-H	0	0	0.086	0.078	0.2	mg/L	0	0	0	0	0
10562380	746625_10562380	3982560LCS_10562380	3982560		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-04 09:34	METHOD	2021-06-04 09:34	SM 4500-NO3-H	0	2.5	2.3	0.078	0.2	mg/L	94	0	90	110	0
10562380	746641_10562380	3982627BLANK_10562380	3982627		MB	INITIAL	NO3/NO2-N	T	1	2021-06-04 12:47	METHOD	2021-06-04 12:47	SM 4500-NO3-H	0	0	0.089	0.078	0.2	mg/L	0	0	0	0	0
10562380	746641_10562380	3982628LCS_10562380	3982628		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:11	METHOD	2021-06-04 11:11	SM 4500-NO3-H	0	2.5	2.6	0.078	0.2	mg/L	103	0	90	110	0
10562380	746641_10562380	SWWW0003-052321MS	3982629	SWWW0003-052321	MS	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:14	METHOD	2021-06-04 11:14	SM 4500-NO3-H	0.57	2.5	2.6	0.078	0.2	mg/L	80	0	80	120	0
10562380	746641_10562380	SWWW0003-052321MSD	3982630	SWWW0003-052321	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:14	METHOD	2021-06-04 11:14	SM 4500-NO3-H	0.57	2.5	2.5	0.078	0.2	mg/L	78	1	80	120	20
10562380	746641_10562380	SWWW0004-052321MS	3982631	SWWW0004-052321	MS	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:16	METHOD	2021-06-04 11:16	SM 4500-NO3-H	0.6	2.5	2.5	0.078	0.2	mg/L	76	0	80	120	0
10562380	746641_10562380	SWWW0004-052321MSD	3982632	SWWW0004-052321	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:19	METHOD	2021-06-04 11:19	SM 4500-NO3-H	0.6	2.5	2.6	0.078	0.2	mg/L	78	2	80	120	20
10562380	746643_10562380	3982637BLANK_10562380	3982637		MB	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:44	METHOD	2021-06-04 11:44	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10562380	746643_10562380	3982638LCS_10562380	3982638		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:46	METHOD	2021-06-04 11:46	SM 4500-NO3-H	0	2.5	2.5	0.078	0.2	mg/L	100	0	90	110	0
10562380	746643_10562380	SWWW0023-052321MS	3982639	SWWW0023-052321	MS	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:48	METHOD	2021-06-04 11:48	SM 4500-NO3-H	0.64	2.5	2.6	0.078	0.2	mg/L	79	0	80	120	0
10562380	746643_10562380	SWWW0023-052321MSD	3982640	SWWW0023-052321	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:51	METHOD	2021-06-04 11:51	SM 4500-NO3-H	0.64	2.5	2.7	0.078	0.2	mg/L	84	4	80	120	20
10562380	746643_10562380	SWWW0027-052321MS	3982641	SWWW0027-052321	MS	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:57	METHOD	2021-06-04 11:57	SM 4500-NO3-H	0.55	2.5	2.5	0.078	0.2	mg/L	80	0	80	120	0
10562380	746643_10562380	SWWW0027-052321MSD	3982642	SWWW0027-052321	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-04 11:57	METHOD	2021-06-04 11:57	SM 4500-NO3-H	0.55	2.5	2.6	0.078	0.2	mg/L	82	2	80	120	20
10562380	746644_10562380	3982643BLANK_10562380	3982643		MB	INITIAL	NO3/NO2-N	T	1	2021-06-04 12:18	METHOD	2021-06-04 12:18	SM 4500-NO3-H	0	0	0.085	0.078	0.2	mg/L	0	0	0	0	0
10562380	746644_10562380	3982644LCS_10562380	3982644		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-04 12:18	METHOD	2021-06-04 12:18	SM 4500-NO3-H	0	2.5	2.6	0.078	0.2	mg/L	103	0	90	110	0
10562380	747972_10562380	SWWW0002-052321MSD	3989790	SWWW0002-052321	MSD	INITIAL	P	T	1	2021-06-09 05:02	SM4500-P-B	2021-06-11 01:38	SM 4500-P-F	0.17	2.5	2.6	0.05	0.1	mg/L	99	0	80	120	20
10562380	747972_10562380	SWWW0002-052321MS	3989789	SWWW0002-052321	MS	INITIAL	P	T	1	2021-06-09 05:02	SM4500-P-B	2021-06-11 01:37	SM 4500-P-F	0.17	2.5	2.6	0.05	0.1	mg/L	99	0	80	120	0
10562380	747972_10562380	3989785BLANK_10562380	3989785		MB	INITIAL	P	T	1	2021-06-09 05:02	SM4500-P-B	2021-06-11 01:26	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10562380	747972_10562380	3989786LCS_10562380	3989786		LCS	INITIAL	P	T	1	2021-06-09 05:02	SM4500-P-B	2021-06-11 01:27	SM 4500-P-F	0	2.5	2.5	0.05	0.1	mg/L	99	0	90	110	0
10562380	748108_10562380	3990588BLANK_10562380	3990588		MB	INITIAL	P	T	1	2021-06-10 10:09	SM4500-P-B	2021-06-11 03:55	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10562380	748108_10562380	3990589LCS_10562380	3990589		LCS	INITIAL	P	T	1	2021-06-10 10:09	SM4500-P-B	2021-06-11 03:56	SM 4500-P-F	0	2.5	2.4	0.05	0.1	mg/L	97	0	90	110	0
10562380	748108_10562380	SWWW0017-052321MS	3990590	SWWW0017-052321	MS	INITIAL	P	T	1	2021-06-10 10:09	SM4500-P-B	2021-06-11 03:58	SM 4500-P-F	0.16	2.5	2.7	0.05	0.1	mg/L	100	0	80	120	0
10562380	748108_10562380	SWWW0017-052321MSD	3990591	SWWW0017-052321	MSD	INITIAL	P	T	1	2021-06-10 10:09	SM4500-P-B	2021-06-11 03:59	SM 4500-P-F	0.16	2.5	2.6	0.05	0.1	mg/L	97	3	80	120	20
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	PbDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	0.000087	0.1	0.1	0.000043	0.0001	mg/L	101	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	PbDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.00054	0.1	0.1	0.000043	0.0001	mg/L	103	4	70	130	20
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	PbDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.00054	0.1	0.1	0.000043	0.0001	mg/L	99	0	70	130	0
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	PbDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	100	0	85	115	0
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	PbDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	INITIAL	PbDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:13	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	PbDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	0.1	0.11	0.000043	0.0001	mg/L	107	0	85	115	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	PbDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	0.00036	0.1	0.1	0.000043	0.0001	mg/L	105	2	70	130	20
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	PbDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	0.00036	0.1	0.11	0.000043	0.0001	mg/L	107	0	70	130	0
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	PbDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	0.00031	0.1	0.11	0.000043	0.0001	mg/L	105	0	70	130	0
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	PbDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	0.0003	0.1	0.1	0.000043	0.0001	mg/L	102	0	70	130	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	PbDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	104	0	85	115	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	PbDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562380	747422_10562380	3986685BLANK_10562380	3986685		MB	INITIAL	PbTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:46	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562380	747422_10562380	SWWW0002-052321MS	3986686	SWWW0002-052321	MS	INITIAL	PbTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:03	EPA 200.8	0.01	0.1	0.11	0.000043	0.0001	mg/L	102	0	70	130	0
10562380	747422_10562380	3988016LCS_10562380	3988016		LCS	INITIAL	PbTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:50	EPA 200.8	0	0.1	0.11	0.000043	0.0001	mg/L	107	0	85	115	0
10562380	747422_10562380	SWWW0002-052321MSD	3986687	SWWW0002-052321	MSD	INITIAL	PbTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:06	EPA 200.8	0.01	0.1	0.11	0.000043	0.0001	mg/L	105	2	70	130	20
10562380	747422_10562380	SWWW0011-052321MS	3986688	SWWW0011-052321	MS	INITIAL	PbTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:53	EPA 200.8	0.0098	0.1	0.11	0.000043	0.0001	mg/L	99	0	70	130	0
10562380	747423_10562380	3986689BLANK_10562380	3986689		MB	INITIAL	PbTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:30	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562380	747423_10562380	3986690LCS_10562380	3986690		LCS	INITIAL	PbTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:33	EPA 200.8	0	0.1	0.11	0.000043	0.0001	mg/L	110	0	85	115	0
10562380	747423_10562380	SWWW0021-052321MS	3986691	SWWW0021-052321	MS	INITIAL	PbTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 04:39	EPA 200.8	0.0032	0.1	0.12	0.00022	0.0005	mg/L	115	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MS	3986692	SWWW0027-052321	MS	INITIAL	PbTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:12	EPA 200.8	0.0034	0.1	0.11	0.00022	0.0005	mg/L	108	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MSD	3986693	SWWW0027-052321	MSD	INITIAL	PbTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:15	EPA 200.8	0.0034	0.1	0.11	0.00022	0.0005	mg/L	107	1	70	130	20
10562380	747490_10562380	SWWW0041-052321MS	3987089	SWWW0041-052321	MS	INITIAL	PbTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 12:18	EPA 200.8	0.013	0.1	0.11	0.00022	0.0005	mg/L	101	0	70	130	0
10562380	747490_10562380	3987088LCS_10562380	3987088		LCS	INITIAL	PbTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.11	0.000043	0.0001	mg/L	106	0	85	115	0
10562380	747490_10562380	3987087BLANK_10562380	3987087		MB	INITIAL	PbTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562380	746801_10562380	SWWW0005-052321MS	3983540	SWWW0005-052321	MS	INITIAL	SO4	T	25	2021-06-07 04:02	METHOD	2021-06-07 04:02	ASTM D516-90-02	565	100	660	30.2	62.5	mg/L	95	0	80	120	0
10562380	746801_10562380	SWWW0005-052321MSD	3983541	SWWW0005-052321	MSD	INITIAL	SO4	T	25	2021-06-07 04:03	METHOD	2021-06-07 04:03	ASTM D516-90-02	565	100	126	30.2	62.5	mg/L	0	136	80	120	30
10562380	746801_10562380	SWWW0004-052321MSD	3983539	SWWW0004-052321	MSD	INITIAL	SO4	T	5	2021-06-07 01:55	METHOD	2021-06-07 01:55	ASTM D516-90-02	30.5	100	113	6	12.5	mg/L	82	17	80	120	30
10562380	746801_10562380	SWWW0004-052321MS	3983538	SWWW0004-052321	MS	INITIAL	SO4	T	5	2021-06-07 01:54	METHOD	2021-06-07 01:54	ASTM D516-90-02	30.5	100	95.6	6	12.5	mg/L	65	0	80	120	0
10562380	746801_10562380	3983535BLANK_10562380	3983535		MB	INITIAL	SO4	T	1	2021-06-07 01:52	METHOD	2021-06-07 01:52	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10562380	746801_10562380	3983536LCS_10562380	3983536		LCS	INITIAL	SO4	T	1	2021-06-07 01:53	METHOD	2021-06-07 01:53	ASTM D516-90-02	0	20	19.2	1.2	2.5	mg/L	96	0	80	120	0
10562380	746801_10562380	3983537LCSD_10562380	3983537	3983536LCS_10562380	LCSD	INITIAL	SO4	T	1	2021-06-07 01:53	METHOD	2021-06-07 01:53	ASTM D516-90-02	0	20	19.1	1.2	2.5	mg/L	96	0	80	120	20
10562380	747231_10562380	3985996BLANK_10562380	3985996		MB	INITIAL	SO4	T	1	2021-06-14 09:24	METHOD	2021-06-14 09:24	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10562380	747231_10562380	3985997LCS_10562380	3985997		LCS	INITIAL	SO4	T	1	2021-06-14 10:13	METHOD	2021-06-14 10:13	ASTM D516-90-02	0	20	19.7	1.2	2.5	mg/L	99	0	80	120	0
10562380	747231_10562380	3985998LCSD_10562380	3985998	3985997LCS_10562380	LCSD	INITIAL	SO4	T	1	2021-06-14 09:25	METHOD	2021-06-14 09:25	ASTM D516-90-02	0	20	16.9	1.2	2.5	mg/L	85	15	80	120	20
10562380	747231_10562380	SWWW0027-052321MSD	3986002	SWWW0027-052321	MSD	INITIAL	SO4	T	2	2021-06-14 10:15	METHOD	2021-06-14 10:15	ASTM D516-90-02	30.4	20	52.4	2.4	5	mg/L	110	1	80	120	30
10562380	747231_10562380	SWWW0027-052321MS	3986001	SWWW0027-052321	MS	INITIAL	SO4	T	2	2021-06-14 10:14	METHOD	2021-06-14 10:14	ASTM D516-90-02	30.4	20	51.8	2.4	5	mg/L	107	0	80	120	0
10562380	747231_10562380	SWWW0024-052321MS	3985999	SWWW0024-052321	MS	INITIAL	SO4	T	2	2021-06-14 10:13	METHOD	2021-06-14 10:13	ASTM D516-90-02	24.9	20	47.2	2.4	5	mg/L	111	0	80	120	0
10562380	747231_10562380	SWWW0024-052321MSD	3986000	SWWW0024-052321	MSD	INITIAL	SO4	T	2	2021-06-14 10:14	METHOD	2021-06-14 10:14	ASTM D516-90-02	24.9	20	47.9	2.4	5	mg/L	115	2	80	120	30
10562380	748265_10562380	3983528BLANK_10562380	3983528		MB	INITIAL	SO4	T	1	2021-06-14 08:46	METHOD	2021-06-14 08:46	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10562380	748265_10562380	3983529LCS_10562380	3983529		LCS	INITIAL	SO4	T	1	2021-06-14 08:46	METHOD	2021-06-14 08:46	ASTM D516-90-02	0	20	16.9	1.2	2.5	mg/L	84	0	80	120	0
10562380	748265_10562380	3983530LCSD_10562380	3983530	3983529LCS_10562380	LCSD	INITIAL	SO4	T	1	2021-06-14 08:47	METHOD	2021-06-14 08:47	ASTM D516-90-02	0	20	16.6	1.2	2.5	mg/L	83	1	80	120	20
10562380	748265_10562380	SWWW0002-052321MSD	3983534	SWWW0002-052321	MSD	INITIAL	SO4	T	5	2021-06-14 09:10	METHOD	2021-06-14 09:10	ASTM D516-90-02	22.5	4	36.8	6	12.5	mg/L	357	7	80	120	30
10562380	748265_10562380	SWWW0002-052321MS	3983533	SWWW0002-052321	MS	INITIAL	SO4	T	5	2021-06-14 09:10	METHOD	2021-06-14 09:10	ASTM D516-90-02	22.5	4	34.1	6	12.5	mg/L	291	0	80	120	0
10562380	748856_10562380	3994713BLANK_10562380	3994713		MB	INITIAL	SO4	T	1	2021-06-14 10:36	METHOD	2021-06-14 10:36	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10562380	748856_10562380	3994714LCS_10562380	3994714		LCS	INITIAL	SO4	T	1	2021-06-14 10:36	METHOD	2021-06-14 10:36	ASTM D516-90-02	0	20	20.2	1.2	2.5	mg/L	101	0	80	120	0
10562380	748856_10562380	3994715LCSD_10562380	3994715	3994714LCS_10562380	LCSD	INITIAL	SO4	T	1	2021-06-14 10:37	METHOD	2021-06-14 10:37	ASTM D516-90-02	0	20	19.1	1.2	2.5	mg/L	95	6	80	120	20
10562380	745242_10562380	SWWW0001-052321DUP	3974937	SWWW0001-052321	LR	INITIAL	TDS	D	1	2021-05-30 03:54	METHOD	2021-05-30 03:54	SM 2540C	133	0	132	5	10	mg/L	0	1	0	0	5
10562380	745242_10562380	SWWW0002-052321DUP	3974938	SWWW0002-052321	LR	INITIAL	TDS	D	1	2021-05-30 03:54	METHOD	2021-05-30 03:54	SM 2540C	141	0	144	5	10	mg/L	0	2	0	0	5
10562380	745242_10562380	3974935BLANK_10562380	3974935		MB	INITIAL	TDS	D	1	2021-05-30 03:54	METHOD	2021-05-30 03:54	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10562380	745242_10562380	3974936LCS_10562380	3974936		LCS	INITIAL	TDS	D	1	2021-05-30 03:54	METHOD	2021-05-30 03:54	SM 2540C	0	1000	1010	10	20	mg/L	101	0	80	120	0
10562380	745244_10562380	3974943BLANK_10562380	3974943		MB	INITIAL	TDS	D	1	2021-05-30 07:02	METHOD	2021-05-30 07:02	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10562380	745244_10562380	3974944LCS_10562380	3974944		LCS	INITIAL	TDS	D	1	2021-05-30 07:02	METHOD	2021-05-30 07:02	SM 2540C	0	1000	1010	10	20	mg/L	101	0	80	120	0
10562380	745244_10562380	SWWW0027-052321DUP	3974946	SWWW0027-052321	LR	INITIAL	TDS	D	1	2021-05-30 07:02	METHOD	2021-05-30 07:02	SM 2540C	183	0	178	5	10	mg/L	0	3	0	0	5
10562380	745244_10562380	SWWW0022-052321DUP	3974945	SWWW0022-052321	LR	INITIAL	TDS	D	1	2021-05-30 07:02	METHOD	2021-05-30 07:02	SM 2540C	166	0	173	5	10	mg/L	0	4	0	0	5
10562380	745246_10562380	SWWW0042-052321DUP	3974954	SWWW0042-052321	LR	INITIAL	TDS	D	1	2021-05-30 07:25	METHOD	2021-05-30 07:25	SM 2540C	616	0	615	5	10	mg/L	0	0	0	0	5
10562380	745246_10562380	3974952BLANK_10562380	3974952		MB	INITIAL	TDS	D	1	2021-05-30 07:25	METHOD	2021-05-30 07:25	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562380	745246_10562380	3974953LCS_10562380	3974953		LCS	INITIAL	TDS	D	1	2021-05-30 07:25	METHOD	2021-05-30 07:25	SM 2540C	0	1000	1030	10	20	mg/L	103	0	80	120	0
10562380	724044_10562380	2910546BLANK_10562380	2910546		MB	INITIAL	TKN	T	1	2021-06-03 03:44	METHOD	2021-06-07 11:40	EPA 351.2	0	0	0.48	0.48	0.5	mg/L	0	0	0	0	0
10562380	724044_10562380	2910547LCS_10562380	2910547		LCS	INITIAL	TKN	T	1	2021-06-03 03:44	METHOD	2021-06-07 11:41	EPA 351.2	0	5	4.8	0.48	0.5	mg/L	96	0	90	110	0
10562380	724044_10562380	SWWW0002-052321DUP	2910549	SWWW0002-052321	LR	INITIAL	TKN	T	1	2021-06-03 03:44	METHOD	2021-06-07 11:55	EPA 351.2	0.36	0	0.79	0.48	0.5	mg/L	0	0	0	0	10
10562380	724044_10562380	SWWW0002-052321MS	2910550	SWWW0002-052321	MS	INITIAL	TKN	T	1	2021-06-03 03:44	METHOD	2021-06-07 11:57	EPA 351.2	0.36	5	5.7	0.48	0.5	mg/L	108	0	90	110	0
10562380	724044_10562380	SWWW0002-052321MSD	2910551	SWWW0002-052321	MSD	INITIAL	TKN	T	1	2021-06-03 03:44	METHOD	2021-06-07 11:58	EPA 351.2	0.36	5	5.5	0.48	0.5	mg/L	103	4	90	110	10
10562380	724046_10562380	SWWW0013-052321MS	2910559	SWWW0013-052321	MS	INITIAL	TKN	T	1	2021-06-03 03:44	METHOD	2021-06-07 12:15	EPA 351.2	0.54	5	5.8	0.48	0.5	mg/L	106	0	90	110	0
10562380	724046_10562380	SWWW0015-052321DUP	2910560	SWWW0015-052321	LR	INITIAL	TKN	T	1	2021-06-03 03:44	METHOD	2021-06-07 12:21	EPA 351.2	0.46	0	0.45	0.48	0.5	mg/L	0	0	0	0	10
10562380	724046_10562380	2910557BLANK_10562380	2910557		MB	INITIAL	TKN	T	1	2021-06-03 03:44	METHOD	2021-06-07 12:12	EPA 351.2	0	0	0.48	0.48	0.5	mg/L	0	0	0	0	0
10562380	724046_10562380	2910558LCS_10562380	2910558		LCS	INITIAL	TKN	T	1	2021-06-03 03:44	METHOD	2021-06-07 12:13	EPA 351.2	0	5	4.6	0.48	0.5	mg/L	91	0	90	110	0
10562380	724325_10562380	2911650BLANK_10562380	2911650		MB	INITIAL	TKN	T	1	2021-06-07 08:44	METHOD	2021-06-09 06:04	EPA 351.2	0	0	0.48	0.48	0.5	mg/L	0	0	0	0	0
10562380	724325_10562380	2911651LCS_10562380	2911651		LCS	INITIAL	TKN	T	1	2021-06-07 08:44	METHOD	2021-06-07 04:48	EPA 351.2	0	5	5	0.48	0.5	mg/L	99	0	90	110	0
10562380	745243_10562380	3974939BLANK_10562380	3974939		MB	INITIAL	TSS	T	1	2021-05-30 03:48	METHOD	2021-05-30 03:48	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10562380	745243_10562380	3974940LCS_10562380	3974940		LCS	INITIAL	TSS	T	1	2021-05-30 03:48	METHOD	2021-05-30 03:48	SM 2540D	0	100	106	10	20	mg/L	106	0	80	120	0
10562380	745243_10562380	SWWW0002-052321DUP	3974942	SWWW0002-052321	LR	INITIAL	TSS	T	1	2021-05-30 03:48	METHOD	2021-05-30 03:48	SM 2540D	78	0	80.5	5	10	mg/L	0	3	0	0	5
10562380	745243_10562380	SWWW0001-052321DUP	3974941	SWWW0001-052321	LR	INITIAL	TSS	T	1	2021-05-30 03:48	METHOD	2021-05-30 03:48	SM 2540D	60	0	59.2	5	10	mg/L	0	1	0	0	5
10562380	745245_10562380	3974947BLANK_10562380	3974947		MB	INITIAL	TSS	T	1	2021-05-30 07:03	METHOD	2021-05-30 07:03	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10562380	745245_10562380	3974948LCS_10562380	3974948		LCS	INITIAL	TSS	T	1	2021-05-30 07:03	METHOD	2021-05-30 07:03	SM 2540D	0	100	95	10	20	mg/L	95	0	80	120	0
10562380	745245_10562380	SWWW0022-052321DUP	3974949	SWWW0022-052321	LR	INITIAL	TSS	T	1	2021-05-30 07:03	METHOD	2021-05-30 07:03	SM 2540D	12.6	0	14.5	5	10	mg/L	0	14	0	0	5
10562380	745245_10562380	SWWW0027-052321DUP	3974950	SWWW0027-052321	LR	INITIAL	TSS	T	1	2021-05-30 07:03	METHOD	2021-05-30 07:03	SM 2540D	33	0	31.7	5	10	mg/L	0	4	0	0	5
10562380	745247_10562380	SWWW0042-052321DUP	3974960	SWWW0042-052321	LR	INITIAL	TSS	T	1	2021-05-30 07:26	METHOD	2021-05-30 07:26	SM 2540D	18.8	0	17.3	5	10	mg/L	0	8	0	0	5
10562380	745247_10562380	3974958BLANK_10562380	3974958		MB	INITIAL	TSS	T	1	2021-05-30 07:26	METHOD	2021-05-30 07:26	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10562380	745247_10562380	3974959LCS_10562380	3974959		LCS	INITIAL	TSS	T	1	2021-05-30 07:26	METHOD	2021-05-30 07:26	SM 2540D	0	100	99.8	10	20	mg/L	100	0	80	120	0
10562380	747412_10562380	3986638BLANK_10562380	3986638		MB	INITIAL	ZnDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562380	747412_10562380	3986639LCS_10562380	3986639		LCS	INITIAL	ZnDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	100	0	85	115	0
10562380	747412_10562380	SWWW0002-052321MS	3986640	SWWW0002-052321	MS	INITIAL	ZnDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.0073	0.1	0.11	0.0023	0.005	mg/L	99	0	70	130	0
10562380	747412_10562380	SWWW0011-052321MS	3986642	SWWW0011-052321	MS	INITIAL	ZnDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-11 09:30	EPA 200.8	0.017	0.1	0.12	0.0023	0.005	mg/L	100	0	70	130	0
10562380	747412_10562380	SWWW0002-052321MSD	3986641	SWWW0002-052321	MSD	INITIAL	ZnDis	D	1	2021-06-09 06:30	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.0073	0.1	0.11	0.0023	0.005	mg/L	103	4	70	130	20
10562380	747413_10562380	3986644LCS_10562380	3986644		LCS	INITIAL	ZnDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:17	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	102	0	85	115	0
10562380	747413_10562380	3986643BLANK_10562380	3986643		MB	INITIAL	ZnDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:13	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562380	747413_10562380	SWWW0027-052321MSD	3986647	SWWW0027-052321	MSD	INITIAL	ZnDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:10	EPA 200.8	0.0095	0.1	0.11	0.0023	0.005	mg/L	99	3	70	130	20
10562380	747413_10562380	SWWW0021-052321MS	3986645	SWWW0021-052321	MS	INITIAL	ZnDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 01:23	EPA 200.8	0.0058	0.1	0.11	0.0023	0.005	mg/L	100	0	70	130	0
10562380	747413_10562380	SWWW0027-052321MS	3986646	SWWW0027-052321	MS	INITIAL	ZnDis	D	1	2021-06-09 01:26	EPA 200.8	2021-06-12 02:07	EPA 200.8	0.0095	0.1	0.11	0.0023	0.005	mg/L	103	0	70	130	0
10562380	747482_10562380	SWWW0041-052321MS	3987038	SWWW0041-052321	MS	INITIAL	ZnDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-12 12:57	EPA 200.8	0.035	0.1	0.13	0.0023	0.005	mg/L	97	0	70	130	0
10562380	747482_10562380	3987036BLANK_10562380	3987036		MB	INITIAL	ZnDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562380	747482_10562380	3987037LCS_10562380	3987037		LCS	INITIAL	ZnDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	101	0	85	115	0
10562380	747422_10562380	3988016LCS_10562380	3988016		LCS	INITIAL	ZnTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:50	EPA 200.8	0	0.1	0.11	0.0023	0.005	mg/L	107	0	85	115	0
10562380	747422_10562380	SWWW0002-052321MS	3986686	SWWW0002-052321	MS	INITIAL	ZnTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:03	EPA 200.8	0.064	0.1	0.17	0.0023	0.005	mg/L	104	0	70	130	0
10562380	747422_10562380	SWWW0002-052321MSD	3986687	SWWW0002-052321	MSD	INITIAL	ZnTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:06	EPA 200.8	0.064	0.1	0.17	0.0023	0.005	mg/L	110	3	70	130	20
10562380	747422_10562380	SWWW0011-052321MS	3986688	SWWW0011-052321	MS	INITIAL	ZnTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 05:53	EPA 200.8	0.058	0.1	0.15	0.0023	0.005	mg/L	95	0	70	130	0
10562380	747422_10562380	3986685BLANK_10562380	3986685		MB	INITIAL	ZnTR	T	1	2021-06-09 06:06	EPA 200.8	2021-06-11 04:46	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562380	747423_10562380	3986690LCS_10562380	3986690		LCS	INITIAL	ZnTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:33	EPA 200.8	0	0.1	0.11	0.0023	0.005	mg/L	107	0	85	115	0
10562380	747423_10562380	3986689BLANK_10562380	3986689		MB	INITIAL	ZnTR	T	1	2021-06-09 01:26	EPA 200.8	2021-06-10 04:30	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562380	747423_10562380	SWWW0027-052321MS	3986692	SWWW0027-052321	MS	INITIAL	ZnTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:12	EPA 200.8	0.027	0.1	0.13	0.011	0.025	mg/L	106	0	70	130	0
10562380	747423_10562380	SWWW0027-052321MSD	3986693	SWWW0027-052321	MSD	INITIAL	ZnTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 05:15	EPA 200.8	0.027	0.1	0.14	0.011	0.025	mg/L	109	2	70	130	20
10562380	747423_10562380	SWWW0021-052321MS	3986691	SWWW0021-052321	MS	INITIAL	ZnTR	T	5	2021-06-09 01:26	EPA 200.8	2021-06-10 04:39	EPA 200.8	0.027	0.1	0.14	0.011	0.025	mg/L	117	0	70	130	0
10562380	747490_10562380	SWWW0041-052321MS	3987089	SWWW0041-052321	MS	INITIAL	ZnTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 12:18	EPA 200.8	0.071	0.1	0.17	0.011	0.025	mg/L	99	0	70	130	0
10562380	747490_10562380	3987088LCS_10562380	3987088		LCS	INITIAL	ZnTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.096	0.0023	0.005	mg/L	96	0	85	115	0
10562380	747490_10562380	3987087BLANK_10562380	3987087		MB	INITIAL	ZnTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	AgDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	AgDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	0.05	0.05	0.000077	0.0005	mg/L	100	0	85	115	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	AgDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	AgDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.05	0.051	0.000077	0.0005	mg/L	102	0	85	115	0
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	AgDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.000077	0.05	0.051	0.00038	0.0025	mg/L	101	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	AgDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.000077	0.05	0.052	0.00038	0.0025	mg/L	105	3	70	130	20
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	AgDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	0	0.05	0.054	0.00038	0.0025	mg/L	109	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	INITIAL	AgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:20	EPA 200.8	0.00014	0.05	0.051	0.000077	0.0005	mg/L	102	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	INITIAL	AgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:24	EPA 200.8	0.00014	0.05	0.053	0.000077	0.0005	mg/L	107	4	70	130	20
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	INITIAL	AgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 11:10	EPA 200.8	0	0.05	0.051	0.000077	0.0005	mg/L	103	0	70	130	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	INITIAL	AgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:04	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	INITIAL	AgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:07	EPA 200.8	0	0.05	0.05	0.000077	0.0005	mg/L	101	0	85	115	0
10562853	748275_10562853	3991470BLANK_10562853	3991470		MB	REANALYSIS	AgTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-17 02:14	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562853	748275_10562853	3991471LCS_10562853	3991471		LCS	REANALYSIS	AgTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-17 02:17	EPA 200.8	0	0.05	0.053	0.000077	0.0005	mg/L	105	0	85	115	0
10562853	748275_10562853	SWWW0055-052621MS	3991474	SWWW0055-052621	MS	REANALYSIS	AgTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-17 03:11	EPA 200.8	0.000072	0.05	0.052	0.00038	0.0025	mg/L	104	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MS	3991472	SWWW0045-052621	MS	REANALYSIS	AgTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-17 02:29	EPA 200.8	0.00031	0.05	0.052	0.00038	0.0025	mg/L	103	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MSD	3991473	SWWW0045-052621	MSD	REANALYSIS	AgTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-17 02:32	EPA 200.8	0.00031	0.05	0.051	0.00038	0.0025	mg/L	101	1	70	130	20
10562853	748276_10562853	SWWW0065-052621MS	3991477	SWWW0065-052621	MS	INITIAL	AgTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:41	EPA 200.8	0.00015	0.05	0.05	0.000077	0.0005	mg/L	100	0	70	130	0
10562853	748276_10562853	SWWW0065-052621MSD	3991478	SWWW0065-052621	MSD	INITIAL	AgTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:45	EPA 200.8	0.00015	0.05	0.05	0.000077	0.0005	mg/L	99	1	70	130	20
10562853	748276_10562853	SWWW0075-052621MS	3991479	SWWW0075-052621	MS	INITIAL	AgTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 11:32	EPA 200.8	0.000066	0.05	0.049	0.000077	0.0005	mg/L	98	0	70	130	0
10562853	748276_10562853	3991475BLANK_10562853	3991475		MB	INITIAL	AgTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:23	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562853	748276_10562853	3991476LCS_10562853	3991476		LCS	INITIAL	AgTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:27	EPA 200.8	0	0.05	0.049	0.000077	0.0005	mg/L	98	0	85	115	0
10562853	749576_10562853	3998065BLANK_10562853	3998065		MB	INITIAL	AgTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:20	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562853	749576_10562853	3998066LCS_10562853	3998066		LCS	INITIAL	AgTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:23	EPA 200.8	0	0.05	0.051	0.000077	0.0005	mg/L	103	0	85	115	0
10562853	750429_10562853	4002321BLANK_10562853	4002321		MB	INITIAL	AgTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:34	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10562853	750429_10562853	4002322LCS_10562853	4002322		LCS	INITIAL	AgTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:37	EPA 200.8	0	0.05	0.049	0.000077	0.0005	mg/L	98	0	85	115	0
10562853	750429_10562853	SWWW0054-052621MS	4002323	SWWW0054-052621	MS	INITIAL	AgTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:51	EPA 200.8	0.00013	0.05	0.048	0.000077	0.0005	mg/L	95	0	70	130	0
10562853	750429_10562853	SWWW0054-052621MSD	4002324	SWWW0054-052621	MSD	INITIAL	AgTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:54	EPA 200.8	0.00013	0.05	0.048	0.000077	0.0005	mg/L	96	1	70	130	20
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	AlDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	2	1.9	0.0071	0.02	mg/L	97	0	85	115	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	AlDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	AlDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	2	2	0.0071	0.02	mg/L	99	0	85	115	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	AlDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	AlDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.01	2	2.2	0.036	0.1	mg/L	107	4	70	130	20
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	AlDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.01	2	2.1	0.036	0.1	mg/L	103	0	70	130	0
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	AlDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	0.011	2	2.2	0.036	0.1	mg/L	108	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	DILUTION	AlDis	D	5	2021-06-17 02:25	EPA 200.8	2021-06-21 01:40	EPA 200.8	0.01	2	1.9	0.036	0.1	mg/L	96	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	DILUTION	AlDis	D	5	2021-06-17 02:25	EPA 200.8	2021-06-21 01:43	EPA 200.8	0.01	2	1.9	0.036	0.1	mg/L	93	3	70	130	20
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	DILUTION	AlDis	D	5	2021-06-17 02:25	EPA 200.8	2021-06-21 02:33	EPA 200.8	0.009	2	2	0.036	0.1	mg/L	101	0	70	130	0
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	REANALYSIS	AlDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-21 01:26	EPA 200.8	0	2	2	0.0071	0.02	mg/L	100	0	85	115	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	REANALYSIS	AlDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-21 01:23	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562853	747367_10562853	3986486BLANK_10562853	3986486		MB	INITIAL	ALK_CaCO3	T	1	2021-06-08 09:50	METHOD	2021-06-08 09:50	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562853	747367_10562853	3986487LCS_10562853	3986487		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-08 09:54	METHOD	2021-06-08 09:54	SM 2320B	0	40	41.3	2	5	mg/L	103	0	90	110	0
10562853	747367_10562853	3986488LCSD_10562853	3986488	3986487LCS_10562853	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-08 09:57	METHOD	2021-06-08 09:57	SM 2320B	0	40	41.3	2	5	mg/L	103	0	90	110	20
10562853	747367_10562853	SWWW0045-052621MS	3986491	SWWW0045-052621	MS	INITIAL	ALK_CaCO3	T	1	2021-06-09 02:31	METHOD	2021-06-09 02:31	SM 2320B	66.9	40	105	2	5	mg/L	94	0	80	120	0
10562853	747367_10562853	SWWW0045-052621MSD	3986492	SWWW0045-052621	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-09 02:35	METHOD	2021-06-09 02:35	SM 2320B	66.9	40	104	2	5	mg/L	94	0	80	120	20
10562853	747653_10562853	SWWW0052-052621MS	3987973	SWWW0052-052621	MS	INITIAL	ALK_CaCO3	T	1	2021-06-09 01:11	METHOD	2021-06-09 01:11	SM 2320B	66.9	40	108	2	5	mg/L	102	0	80	120	0
10562853	747653_10562853	SWWW0052-052621MSD	3987974	SWWW0052-052621	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-09 01:23	METHOD	2021-06-09 01:23	SM 2320B	66.9	40	108	2	5	mg/L	102	0	80	120	20
10562853	747653_10562853	3987968BLANK_10562853	3987968		MB	INITIAL	ALK_CaCO3	T	1	2021-06-08 11:05	METHOD	2021-06-08 11:05	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562853	747653_10562853	3987969LCS_10562853	3987969		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-08 11:08	METHOD	2021-06-08 11:08	SM 2320B	0	40	43.2	2	5	mg/L	108	0	90	110	0
10562853	747653_10562853	3987970LCSD_10562853	3987970	3987969LCS_10562853	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-08 11:12	METHOD	2021-06-08 11:12	SM 2320B	0	40	43	2	5	mg/L	107	0	90	110	20
10562853	747655_10562853	3987979BLANK_10562853	3987979		MB	INITIAL	ALK_CaCO3	T	1	2021-06-09 02:59	METHOD	2021-06-09 02:59	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562853	747655_10562853	3987980LCS_10562853	3987980		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-09 03:02	METHOD	2021-06-09 03:02	SM 2320B	0	40	41.4	2	5	mg/L	104	0	90	110	0
10562853	747655_10562853	3987981LCSD_10562853	3987981	3987980LCS_10562853	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-09 03:06	METHOD	2021-06-09 03:06	SM 2320B	0	40	41.3	2	5	mg/L	103	0	90	110	20
10562853	747655_10562853	SWWW0065-052621MS	3987984	SWWW0065-052621	MS	INITIAL	ALK_CaCO3	T	1	2021-06-09 03:37	METHOD	2021-06-09 03:37	SM 2320B	65.5	40	104	2	5	mg/L	97	0	80	120	0
10562853	747655_10562853	SWWW0063-052621MS	3987982	SWWW0063-052621	MS	INITIAL	ALK_CaCO3	T	1	2021-06-09 03:15	METHOD	2021-06-09 03:15	SM 2320B	66.4	40	105	2	5	mg/L	97	0	80	120	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562853	747655_10562853	SWWW0063-052621MSD	3987983	SWWW0063-052621	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-09 03:21	METHOD	2021-06-09 03:21	SM 2320B	66.4	40	103	2	5	mg/L	93	1	80	120	20
10562853	747655_10562853	SWWW0065-052621MSD	3987985	SWWW0065-052621	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-09 03:42	METHOD	2021-06-09 03:42	SM 2320B	65.5	40	104	2	5	mg/L	97	0	80	120	20
10562853	747656_10562853	SWWW0083-052621MS	3987989	SWWW0083-052621	MS	INITIAL	ALK_CaCO3	T	1	2021-06-09 06:55	METHOD	2021-06-09 06:55	SM 2320B	64.3	40	104	2	5	mg/L	100	0	80	120	0
10562853	747656_10562853	SWWW0083-052621MSD	3987990	SWWW0083-052621	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-09 06:59	METHOD	2021-06-09 06:59	SM 2320B	64.3	40	104	2	5	mg/L	100	0	80	120	20
10562853	747656_10562853	SWWW0085-052621MS	3987991	SWWW0085-052621	MS	INITIAL	ALK_CaCO3	T	1	2021-06-09 07:07	METHOD	2021-06-09 07:07	SM 2320B	87.6	40	128	2	5	mg/L	101	0	80	120	0
10562853	747656_10562853	SWWW0085-052621MSD	3987992	SWWW0085-052621	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-09 07:11	METHOD	2021-06-09 07:11	SM 2320B	87.6	40	128	2	5	mg/L	100	0	80	120	20
10562853	747656_10562853	3987986BLANK_10562853	3987986		MB	INITIAL	ALK_CaCO3	T	1	2021-06-09 06:43	METHOD	2021-06-09 06:43	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562853	747656_10562853	3987987LCS_10562853	3987987		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-09 06:46	METHOD	2021-06-09 06:46	SM 2320B	0	40	48.1	2	5	mg/L	120	0	90	110	0
10562853	747656_10562853	3987988LCSD_10562853	3987988	3987987LCS_10562853	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-09 06:48	METHOD	2021-06-09 06:48	SM 2320B	0	40	50.7	2	5	mg/L	127	5	90	110	20
10562853	747657_10562853	3987993BLANK_10562853	3987993		MB	INITIAL	ALK_CaCO3	T	1	2021-06-09 01:52	METHOD	2021-06-09 01:52	SM 2320B	0	0	2	2	5	mg/L	0	0	0	0	0
10562853	747657_10562853	3987994LCS_10562853	3987994		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-09 01:55	METHOD	2021-06-09 01:55	SM 2320B	0	40	42.9	2	5	mg/L	107	0	90	110	0
10562853	747657_10562853	3987995LCSD_10562853	3987995	3987994LCS_10562853	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-09 04:02	METHOD	2021-06-09 04:02	SM 2320B	0	40	42.7	2	5	mg/L	107	1	90	110	20
10562853	748076_10562853	3990480BLANK_10562853	3990480		MB	INITIAL	ALK_CaCO3	T	1	2021-06-17 08:18	METHOD	2021-06-17 08:18	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10562853	748076_10562853	3990481LCS_10562853	3990481		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-17 08:21	METHOD	2021-06-17 08:21	SM 2320B	0	40	41.9	1.8	5	mg/L	105	0	90	110	0
10562853	748076_10562853	3990482LCSD_10562853	3990482	3990481LCS_10562853	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-17 08:25	METHOD	2021-06-17 08:25	SM 2320B	0	40	42.1	1.8	5	mg/L	105	1	90	110	20
10562853	748275_10562853	3991471LCS_10562853	3991471		LCS	INITIAL	AlTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:24	EPA 200.8	0	2	2	0.0071	0.02	mg/L	98	0	85	115	0
10562853	748275_10562853	3991470BLANK_10562853	3991470		MB	INITIAL	AlTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:20	EPA 200.8	0	0	0.013	0.0071	0.02	mg/L	0	0	0	0	0
10562853	748275_10562853	SWWW0055-052621MS	3991474	SWWW0055-052621	MS	INITIAL	AlTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 11:18	EPA 200.8	0.74	2	2.7	0.036	0.1	mg/L	97	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MSD	3991473	SWWW0045-052621	MSD	INITIAL	AlTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:39	EPA 200.8	0.73	2	2.6	0.036	0.1	mg/L	94	4	70	130	20
10562853	748275_10562853	SWWW0045-052621MS	3991472	SWWW0045-052621	MS	INITIAL	AlTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:36	EPA 200.8	0.73	2	2.7	0.036	0.1	mg/L	100	0	70	130	0
10562853	748276_10562853	SWWW0065-052621MSD	3991478	SWWW0065-052621	MSD	INITIAL	AlTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:45	EPA 200.8	0.98	2	3.3	0.0071	0.02	mg/L	117	1	70	130	20
10562853	748276_10562853	SWWW0065-052621MS	3991477	SWWW0065-052621	MS	INITIAL	AlTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:41	EPA 200.8	0.98	2	3.3	0.0071	0.02	mg/L	116	0	70	130	0
10562853	748276_10562853	SWWW0075-052621MS	3991479	SWWW0075-052621	MS	INITIAL	AlTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 11:32	EPA 200.8	0.76	2	3	0.0071	0.02	mg/L	113	0	70	130	0
10562853	748276_10562853	3991476LCS_10562853	3991476		LCS	INITIAL	AlTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:27	EPA 200.8	0	2	2	0.0071	0.02	mg/L	99	0	85	115	0
10562853	748276_10562853	3991475BLANK_10562853	3991475		MB	INITIAL	AlTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:23	EPA 200.8	0	0	0.009	0.0071	0.02	mg/L	0	0	0	0	0
10562853	749576_10562853	3998066LCS_10562853	3998066		LCS	INITIAL	AlTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:23	EPA 200.8	0	2	2	0.0071	0.02	mg/L	98	0	85	115	0
10562853	749576_10562853	3998065BLANK_10562853	3998065		MB	INITIAL	AlTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:20	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562853	750429_10562853	4002321BLANK_10562853	4002321		MB	INITIAL	AlTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:34	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10562853	750429_10562853	4002322LCS_10562853	4002322		LCS	INITIAL	AlTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:37	EPA 200.8	0	2	1.9	0.0071	0.02	mg/L	96	0	85	115	0
10562853	750429_10562853	SWWW0054-052621MS	4002323	SWWW0054-052621	MS	INITIAL	AlTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:51	EPA 200.8	0.53	2	2.5	0.0071	0.02	mg/L	96	0	70	130	0
10562853	750429_10562853	SWWW0054-052621MSD	4002324	SWWW0054-052621	MSD	INITIAL	AlTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:54	EPA 200.8	0.53	2	2.5	0.0071	0.02	mg/L	99	2	70	130	20
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	AsDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	100	0	85	115	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	AsDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	AsDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	AsDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	101	0	85	115	0
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	AsDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.0024	0.1	0.1	0.0007	0.0025	mg/L	103	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	AsDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.0024	0.1	0.11	0.0007	0.0025	mg/L	110	7	70	130	20
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	AsDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	0.0036	0.1	0.11	0.0007	0.0025	mg/L	109	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	INITIAL	AsDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:20	EPA 200.8	0.0024	0.1	0.1	0.00014	0.0005	mg/L	99	0	70	130	0
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	INITIAL	AsDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 11:10	EPA 200.8	0.0032	0.1	0.1	0.00014	0.0005	mg/L	98	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	INITIAL	AsDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:24	EPA 200.8	0.0024	0.1	0.1	0.00014	0.0005	mg/L	101	2	70	130	20
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	INITIAL	AsDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:07	EPA 200.8	0	0.1	0.096	0.00014	0.0005	mg/L	96	0	85	115	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	INITIAL	AsDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:04	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562853	748275_10562853	3991470BLANK_10562853	3991470		MB	INITIAL	AsTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:20	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562853	748275_10562853	3991471LCS_10562853	3991471		LCS	INITIAL	AsTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:24	EPA 200.8	0	0.1	0.099	0.00014	0.0005	mg/L	99	0	85	115	0
10562853	748275_10562853	SWWW0055-052621MS	3991474	SWWW0055-052621	MS	INITIAL	AsTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 11:18	EPA 200.8	0.0054	0.1	0.1	0.0007	0.0025	mg/L	98	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MS	3991472	SWWW0045-052621	MS	INITIAL	AsTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:36	EPA 200.8	0.0041	0.1	0.11	0.0007	0.0025	mg/L	101	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MSD	3991473	SWWW0045-052621	MSD	INITIAL	AsTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:39	EPA 200.8	0.0041	0.1	0.1	0.0007	0.0025	mg/L	100	1	70	130	20
10562853	748276_10562853	SWWW0065-052621MS	3991477	SWWW0065-052621	MS	INITIAL	AsTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:41	EPA 200.8	0.0042	0.1	0.11	0.00014	0.0005	mg/L	105	0	70	130	0
10562853	748276_10562853	SWWW0065-052621MSD	3991478	SWWW0065-052621	MSD	INITIAL	AsTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:45	EPA 200.8	0.0042	0.1	0.11	0.00014	0.0005	mg/L	104	0	70	130	20
10562853	748276_10562853	SWWW0075-052621MS	3991479	SWWW0075-052621	MS	INITIAL	AsTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 11:32	EPA 200.8	0.0054	0.1	0.11	0.00014	0.0005	mg/L	103	0	70	130	0
10562853	748276_10562853	3991476LCS_10562853	3991476		LCS	INITIAL	AsTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:27	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	101	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562853	748276_10562853	3991475BLANK_10562853	3991475		MB	INITIAL	AsTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:23	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562853	749576_10562853	3998065BLANK_10562853	3998065		MB	INITIAL	AsTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:20	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562853	749576_10562853	3998066LCS_10562853	3998066		LCS	INITIAL	AsTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:23	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	100	0	85	115	0
10562853	750429_10562853	4002321BLANK_10562853	4002321		MB	INITIAL	AsTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:34	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10562853	750429_10562853	SWWW0054-052621MSD	4002324	SWWW0054-052621	MSD	INITIAL	AsTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:54	EPA 200.8	0.0053	0.1	0.11	0.00014	0.0005	mg/L	103	1	70	130	20
10562853	750429_10562853	SWWW0054-052621MS	4002323	SWWW0054-052621	MS	INITIAL	AsTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:51	EPA 200.8	0.0053	0.1	0.11	0.00014	0.0005	mg/L	102	0	70	130	0
10562853	750429_10562853	4002322LCS_10562853	4002322		LCS	INITIAL	AsTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:37	EPA 200.8	0	0.1	0.098	0.00014	0.0005	mg/L	98	0	85	115	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	CaDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	CaDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	2	2	0.015	0.04	mg/L	100	0	85	115	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	CaDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	CaDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	2	2.1	0.015	0.04	mg/L	104	0	85	115	0
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	CaDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	25.1	2	28.8	0.076	0.2	mg/L	182	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	CaDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	25.1	2	29.6	0.076	0.2	mg/L	225	3	70	130	20
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	CaDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	75.6	2	82.5	0.076	0.2	mg/L	346	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	DILUTION	CaDis	D	5	2021-06-17 02:25	EPA 200.8	2021-06-21 01:40	EPA 200.8	25	2	26.6	0.076	0.2	mg/L	81	0	70	130	0
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	DILUTION	CaDis	D	5	2021-06-17 02:25	EPA 200.8	2021-06-21 02:33	EPA 200.8	55.5	2	58.9	0.076	0.2	mg/L	168	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	DILUTION	CaDis	D	5	2021-06-17 02:25	EPA 200.8	2021-06-21 01:43	EPA 200.8	25	2	25.2	0.076	0.2	mg/L	7	6	70	130	20
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	REANALYSIS	CaDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-21 01:26	EPA 200.8	0	2	2	0.015	0.04	mg/L	102	0	85	115	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	REANALYSIS	CaDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-21 01:23	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	CdDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	CdDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	0.1	0.098	0.00003	0.00008	mg/L	98	0	85	115	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	CdDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.099	0.00003	0.00008	mg/L	99	0	85	115	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	CdDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	CdDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	0.000056	0.1	0.11	0.00015	0.0004	mg/L	108	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	CdDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.000033	0.1	0.11	0.00015	0.0004	mg/L	106	4	70	130	20
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	CdDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.000033	0.1	0.1	0.00015	0.0004	mg/L	102	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	INITIAL	CdDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:20	EPA 200.8	0.000029	0.1	0.098	0.00003	0.00008	mg/L	98	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	INITIAL	CdDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:24	EPA 200.8	0.000029	0.1	0.1	0.00003	0.00008	mg/L	102	4	70	130	20
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	INITIAL	CdDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 11:10	EPA 200.8	0.000038	0.1	0.098	0.00003	0.00008	mg/L	98	0	70	130	0
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	INITIAL	CdDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:07	EPA 200.8	0	0.1	0.096	0.00003	0.00008	mg/L	96	0	85	115	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	INITIAL	CdDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:04	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562853	748275_10562853	3991470BLANK_10562853	3991470		MB	INITIAL	CdTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:20	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562853	748275_10562853	3991471LCS_10562853	3991471		LCS	INITIAL	CdTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:24	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	100	0	85	115	0
10562853	748275_10562853	SWWW0055-052621MS	3991474	SWWW0055-052621	MS	INITIAL	CdTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 11:18	EPA 200.8	0.00012	0.1	0.097	0.00015	0.0004	mg/L	97	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MS	3991472	SWWW0045-052621	MS	INITIAL	CdTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:36	EPA 200.8	0.00021	0.1	0.1	0.00015	0.0004	mg/L	100	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MSD	3991473	SWWW0045-052621	MSD	INITIAL	CdTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:39	EPA 200.8	0.00021	0.1	0.098	0.00015	0.0004	mg/L	98	3	70	130	20
10562853	748276_10562853	SWWW0065-052621MS	3991477	SWWW0065-052621	MS	INITIAL	CdTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:41	EPA 200.8	0.0001	0.1	0.1	0.00003	0.00008	mg/L	100	0	70	130	0
10562853	748276_10562853	SWWW0065-052621MSD	3991478	SWWW0065-052621	MSD	INITIAL	CdTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:45	EPA 200.8	0.0001	0.1	0.099	0.00003	0.00008	mg/L	99	1	70	130	20
10562853	748276_10562853	SWWW0075-052621MS	3991479	SWWW0075-052621	MS	INITIAL	CdTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 11:32	EPA 200.8	0.00012	0.1	0.099	0.00003	0.00008	mg/L	99	0	70	130	0
10562853	748276_10562853	3991475BLANK_10562853	3991475		MB	INITIAL	CdTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:23	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562853	748276_10562853	3991476LCS_10562853	3991476		LCS	INITIAL	CdTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:27	EPA 200.8	0	0.1	0.097	0.00003	0.00008	mg/L	97	0	85	115	0
10562853	749576_10562853	3998066LCS_10562853	3998066		LCS	INITIAL	CdTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:23	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	100	0	85	115	0
10562853	749576_10562853	3998065BLANK_10562853	3998065		MB	INITIAL	CdTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:20	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562853	750429_10562853	4002321BLANK_10562853	4002321		MB	INITIAL	CdTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:34	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10562853	750429_10562853	4002322LCS_10562853	4002322		LCS	INITIAL	CdTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:37	EPA 200.8	0	0.1	0.097	0.00003	0.00008	mg/L	97	0	85	115	0
10562853	750429_10562853	SWWW0054-052621MS	4002323	SWWW0054-052621	MS	INITIAL	CdTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:51	EPA 200.8	0.00016	0.1	0.098	0.00003	0.00008	mg/L	97	0	70	130	0
10562853	750429_10562853	SWWW0054-052621MSD	4002324	SWWW0054-052621	MSD	INITIAL	CdTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:54	EPA 200.8	0.00016	0.1	0.1	0.00003	0.00008	mg/L	100	2	70	130	20
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	CuDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	CuDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	0.1	0.099	0.00043	0.001	mg/L	99	0	85	115	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	CuDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	CuDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	101	0	85	115	0
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	CuDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.0042	0.1	0.11	0.0021	0.005	mg/L	105	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	CuDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.0042	0.1	0.11	0.0021	0.005	mg/L	110	5	70	130	20
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	CuDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	0.0072	0.1	0.12	0.0021	0.005	mg/L	112	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	INITIAL	CuDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:20	EPA 200.8	0.0047	0.1	0.11	0.00043	0.001	mg/L	101	0	70	130	0
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	INITIAL	CuDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 11:10	EPA 200.8	0.0058	0.1	0.11	0.00043	0.001	mg/L	99	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	INITIAL	CuDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:24	EPA 200.8	0.0047	0.1	0.11	0.00043	0.001	mg/L	106	4	70	130	20
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	INITIAL	CuDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:07	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	101	0	85	115	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	INITIAL	CuDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:04	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562853	748275_10562853	3991471LCS_10562853	3991471		LCS	INITIAL	CuTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:24	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	103	0	85	115	0
10562853	748275_10562853	3991470BLANK_10562853	3991470		MB	INITIAL	CuTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:20	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562853	748275_10562853	SWWW0055-052621MS	3991474	SWWW0055-052621	MS	INITIAL	CuTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 11:18	EPA 200.8	0.023	0.1	0.12	0.0021	0.005	mg/L	100	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MS	3991472	SWWW0045-052621	MS	INITIAL	CuTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:36	EPA 200.8	0.021	0.1	0.12	0.0021	0.005	mg/L	98	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MSD	3991473	SWWW0045-052621	MSD	INITIAL	CuTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:39	EPA 200.8	0.021	0.1	0.12	0.0021	0.005	mg/L	94	3	70	130	20
10562853	748276_10562853	SWWW0065-052621MS	3991477	SWWW0065-052621	MS	INITIAL	CuTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:41	EPA 200.8	0.017	0.1	0.12	0.00043	0.001	mg/L	103	0	70	130	0
10562853	748276_10562853	SWWW0065-052621MSD	3991478	SWWW0065-052621	MSD	INITIAL	CuTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:45	EPA 200.8	0.017	0.1	0.12	0.00043	0.001	mg/L	102	1	70	130	20
10562853	748276_10562853	SWWW0075-052621MS	3991479	SWWW0075-052621	MS	INITIAL	CuTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 11:32	EPA 200.8	0.022	0.1	0.12	0.00043	0.001	mg/L	100	0	70	130	0
10562853	748276_10562853	3991476LCS_10562853	3991476		LCS	INITIAL	CuTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:27	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	102	0	85	115	0
10562853	748276_10562853	3991475BLANK_10562853	3991475		MB	INITIAL	CuTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:23	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562853	749576_10562853	3998065BLANK_10562853	3998065		MB	INITIAL	CuTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:20	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562853	749576_10562853	3998066LCS_10562853	3998066		LCS	INITIAL	CuTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:23	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	104	0	85	115	0
10562853	750429_10562853	4002321BLANK_10562853	4002321		MB	INITIAL	CuTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:34	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10562853	750429_10562853	SWWW0054-052621MSD	4002324	SWWW0054-052621	MSD	INITIAL	CuTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:54	EPA 200.8	0.017	0.1	0.11	0.00043	0.001	mg/L	95	2	70	130	20
10562853	750429_10562853	SWWW0054-052621MS	4002323	SWWW0054-052621	MS	INITIAL	CuTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:51	EPA 200.8	0.017	0.1	0.11	0.00043	0.001	mg/L	93	0	70	130	0
10562853	750429_10562853	4002322LCS_10562853	4002322		LCS	INITIAL	CuTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:37	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	101	0	85	115	0
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	FeDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	2	2	0.012	0.05	mg/L	101	0	85	115	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	FeDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	FeDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	104	0	85	115	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	FeDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	FeDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.2	2	2.5	0.06	0.25	mg/L	114	4	70	130	20
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	FeDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.2	2	2.4	0.06	0.25	mg/L	109	0	70	130	0
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	FeDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	0.045	2	2.4	0.06	0.25	mg/L	115	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	INITIAL	FeDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:24	EPA 200.8	0.18	2	2.1	0.012	0.05	mg/L	96	3	70	130	20
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	INITIAL	FeDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:20	EPA 200.8	0.18	2	2	0.012	0.05	mg/L	93	0	70	130	0
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	INITIAL	FeDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 11:10	EPA 200.8	0.074	2	1.9	0.012	0.05	mg/L	91	0	70	130	0
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	INITIAL	FeDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:07	EPA 200.8	0	2	1.9	0.012	0.05	mg/L	95	0	85	115	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	INITIAL	FeDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:04	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562853	748275_10562853	3991470BLANK_10562853	3991470		MB	INITIAL	FeTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:20	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562853	748275_10562853	3991471LCS_10562853	3991471		LCS	INITIAL	FeTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:24	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
10562853	748275_10562853	SWWW0055-052621MS	3991474	SWWW0055-052621	MS	INITIAL	FeTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 11:18	EPA 200.8	1.1	2	3	0.06	0.25	mg/L	98	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MS	3991472	SWWW0045-052621	MS	INITIAL	FeTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:36	EPA 200.8	1.4	2	3.4	0.06	0.25	mg/L	99	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MSD	3991473	SWWW0045-052621	MSD	INITIAL	FeTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:39	EPA 200.8	1.4	2	3.3	0.06	0.25	mg/L	95	2	70	130	20
10562853	748276_10562853	SWWW0065-052621MS	3991477	SWWW0065-052621	MS	INITIAL	FeTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:41	EPA 200.8	1.9	2	4	0.012	0.05	mg/L	106	0	70	130	0
10562853	748276_10562853	SWWW0065-052621MSD	3991478	SWWW0065-052621	MSD	INITIAL	FeTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:45	EPA 200.8	1.9	2	4.1	0.012	0.05	mg/L	110	2	70	130	20
10562853	748276_10562853	SWWW0075-052621MS	3991479	SWWW0075-052621	MS	INITIAL	FeTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 11:32	EPA 200.8	1.3	2	3.4	0.012	0.05	mg/L	109	0	70	130	0
10562853	748276_10562853	3991476LCS_10562853	3991476		LCS	INITIAL	FeTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:27	EPA 200.8	0	2	2	0.012	0.05	mg/L	102	0	85	115	0
10562853	748276_10562853	3991475BLANK_10562853	3991475		MB	INITIAL	FeTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:23	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562853	749576_10562853	3998066LCS_10562853	3998066		LCS	INITIAL	FeTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:23	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	104	0	85	115	0
10562853	749576_10562853	3998065BLANK_10562853	3998065		MB	INITIAL	FeTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:20	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562853	750429_10562853	4002321BLANK_10562853	4002321		MB	INITIAL	FeTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:34	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10562853	750429_10562853	SWWW0054-052621MSD	4002324	SWWW0054-052621	MSD	INITIAL	FeTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:54	EPA 200.8	0.91	2	3	0.012	0.05	mg/L	104	3	70	130	20
10562853	750429_10562853	SWWW0054-052621MS	4002323	SWWW0054-052621	MS	INITIAL	FeTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:51	EPA 200.8	0.91	2	2.9	0.012	0.05	mg/L	99	0	70	130	0
10562853	750429_10562853	4002322LCS_10562853	4002322		LCS	INITIAL	FeTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:37	EPA 200.8	0	2	2	0.012	0.05	mg/L	100	0	85	115	0
10562853	748302_10562853	SWWW0045-052621MSD	3991571	SWWW0045-052621	MSD	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 04:49	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	96	3	70	130	20

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562853	748302_10562853	SWWW0045-052621MS	3991570	SWWW0045-052621	MS	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 04:47	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	99	0	70	130	0
10562853	748302_10562853	SWWW0056-052621MS	3991572	SWWW0056-052621	MS	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 05:09	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	99	0	70	130	0
10562853	748302_10562853	3991568BLANK_10562853	3991568		MB	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 04:43	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562853	748302_10562853	3991569LCS_10562853	3991569		LCS	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 04:44	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	97	0	85	115	0
10562853	748303_10562853	3991573BLANK_10562853	3991573		MB	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 03:09	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562853	748303_10562853	3991574LCS_10562853	3991574		LCS	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 03:10	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	85	115	0
10562853	748303_10562853	SWWW0065-052621MS	3991575	SWWW0065-052621	MS	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 03:13	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	98	0	70	130	0
10562853	748303_10562853	SWWW0065-052621MSD	3991576	SWWW0065-052621	MSD	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 03:14	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	99	0	70	130	20
10562853	748303_10562853	SWWW0076-052621MS	3991577	SWWW0076-052621	MS	INITIAL	HgDis	D	1	2021-06-10 08:47	EPA 245.1	2021-06-14 03:36	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	98	0	70	130	0
10562853	748305_10562853	SWWW0087-052621MSD	3991590	SWWW0087-052621	MSD	INITIAL	HgDis	D	1	2021-06-11 08:55	EPA 245.1	2021-06-14 02:06	EPA 245.1	0	0.005	0.0047	0.000045	0.0002	mg/L	94	2	70	130	20
10562853	748305_10562853	SWWW0087-052621MS	3991589	SWWW0087-052621	MS	INITIAL	HgDis	D	1	2021-06-11 08:55	EPA 245.1	2021-06-14 02:04	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	96	0	70	130	0
10562853	748305_10562853	3991587BLANK_10562853	3991587		MB	INITIAL	HgDis	D	1	2021-06-11 08:55	EPA 245.1	2021-06-14 01:57	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562853	748305_10562853	3991588LCS_10562853	3991588		LCS	INITIAL	HgDis	D	1	2021-06-11 08:55	EPA 245.1	2021-06-14 01:59	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	95	0	85	115	0
10562853	748306_10562853	3991592BLANK_10562853	3991592		MB	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 02:22	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562853	748306_10562853	3991593LCS_10562853	3991593		LCS	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 02:23	EPA 245.1	0	0.005	0.0047	0.000045	0.0002	mg/L	94	0	85	115	0
10562853	748306_10562853	SWWW0056-052621MS	3991596	SWWW0056-052621	MS	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 02:48	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	98	0	70	130	0
10562853	748306_10562853	SWWW0045-052621MSD	3991595	SWWW0045-052621	MSD	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 02:28	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	97	3	70	130	20
10562853	748306_10562853	SWWW0045-052621MS	3991594	SWWW0045-052621	MS	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 02:26	EPA 245.1	0	0.005	0.0047	0.000045	0.0002	mg/L	94	0	70	130	0
10562853	748307_10562853	SWWW0065-052621MS	3991602	SWWW0065-052621	MS	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 04:00	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	98	0	70	130	0
10562853	748307_10562853	SWWW0076-052621MS	3991604	SWWW0076-052621	MS	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 04:22	EPA 245.1	0.00001	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
10562853	748307_10562853	SWWW0065-052621MSD	3991603	SWWW0065-052621	MSD	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 04:02	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	97	1	70	130	20
10562853	748307_10562853	3991600BLANK_10562853	3991600		MB	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 03:56	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562853	748307_10562853	3991601LCS_10562853	3991601		LCS	INITIAL	HgTR	T	1	2021-06-10 08:47	EPA 245.1	2021-06-14 03:57	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	97	0	85	115	0
10562853	748308_10562853	3991606BLANK_10562853	3991606		MB	INITIAL	HgTR	T	1	2021-06-11 08:55	EPA 245.1	2021-06-14 01:31	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10562853	748308_10562853	3991607LCS_10562853	3991607		LCS	INITIAL	HgTR	T	1	2021-06-11 08:55	EPA 245.1	2021-06-14 01:32	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	85	115	0
10562853	748308_10562853	SWWW0087-052621MS	3991608	SWWW0087-052621	MS	INITIAL	HgTR	T	1	2021-06-11 08:55	EPA 245.1	2021-06-14 01:38	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	97	0	70	130	0
10562853	748308_10562853	SWWW0087-052621MSD	3991609	SWWW0087-052621	MSD	INITIAL	HgTR	T	1	2021-06-11 08:55	EPA 245.1	2021-06-14 01:40	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	6	70	130	20
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	MgDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	2	1.9	0.0039	0.01	mg/L	97	0	85	115	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	MgDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	MgDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	MgDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	2	2.1	0.0039	0.01	mg/L	104	0	85	115	0
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	MgDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	9.4	2	12.6	0.019	0.05	mg/L	162	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	MgDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	6.3	2	8.9	0.019	0.05	mg/L	132	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	MgDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	6.3	2	9.2	0.019	0.05	mg/L	144	3	70	130	20
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	INITIAL	MgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:20	EPA 200.8	6.1	2	8	0.0039	0.01	mg/L	96	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	INITIAL	MgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:24	EPA 200.8	6.1	2	8	0.0039	0.01	mg/L	99	1	70	130	20
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	INITIAL	MgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 11:10	EPA 200.8	7.3	2	8.6	0.0039	0.01	mg/L	66	0	70	130	0
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	INITIAL	MgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:07	EPA 200.8	0	2	1.9	0.0039	0.01	mg/L	95	0	85	115	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	INITIAL	MgDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:04	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	MoDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	0.1	0.097	0.000081	0.0005	mg/L	97	0	85	115	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	MoDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	MoDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.096	0.000081	0.0005	mg/L	96	0	85	115	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	MoDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	MoDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	0.073	0.1	0.18	0.0004	0.0025	mg/L	108	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	MoDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.0039	0.1	0.11	0.0004	0.0025	mg/L	107	10	70	130	20
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	MoDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.0039	0.1	0.1	0.0004	0.0025	mg/L	97	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	INITIAL	MoDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:24	EPA 200.8	0.0039	0.1	0.1	0.000081	0.0005	mg/L	101	3	70	130	20
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	INITIAL	MoDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:20	EPA 200.8	0.0039	0.1	0.1	0.000081	0.0005	mg/L	97	0	70	130	0
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	INITIAL	MoDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 11:10	EPA 200.8	0.057	0.1	0.15	0.000081	0.0005	mg/L	95	0	70	130	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	INITIAL	MoDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:04	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	INITIAL	MoDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:07	EPA 200.8	0	0.1	0.095	0.000081	0.0005	mg/L	95	0	85	115	0
10562853	748275_10562853	3991470BLANK_10562853	3991470		MB	INITIAL	MoTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:20	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562853	748275_10562853	3991471LCS_10562853	3991471		LCS	INITIAL	MoTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:24	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	101	0	85	115	0
10562853	748275_10562853	SWWW0055-052621MS	3991474	SWWW0055-052621	MS	INITIAL	MoTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 11:18	EPA 200.8	0.069	0.1	0.17	0.0004	0.0025	mg/L	97	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MS	3991472	SWWW0045-052621	MS	INITIAL	MoTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:36	EPA 200.8	0.0045	0.1	0.1	0.0004	0.0025	mg/L	99	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MSD	3991473	SWWW0045-052621	MSD	INITIAL	MoTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:39	EPA 200.8	0.0045	0.1	0.1	0.0004	0.0025	mg/L	98	2	70	130	20
10562853	748276_10562853	SWWW0065-052621MS	3991477	SWWW0065-052621	MS	INITIAL	MoTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:41	EPA 200.8	0.0042	0.1	0.11	0.000081	0.0005	mg/L	101	0	70	130	0
10562853	748276_10562853	SWWW0075-052621MS	3991479	SWWW0075-052621	MS	INITIAL	MoTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 11:32	EPA 200.8	0.054	0.1	0.16	0.000081	0.0005	mg/L	103	0	70	130	0
10562853	748276_10562853	SWWW0065-052621MSD	3991478	SWWW0065-052621	MSD	INITIAL	MoTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:45	EPA 200.8	0.0042	0.1	0.1	0.000081	0.0005	mg/L	99	2	70	130	20
10562853	748276_10562853	3991475BLANK_10562853	3991475		MB	INITIAL	MoTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:23	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562853	748276_10562853	3991476LCS_10562853	3991476		LCS	INITIAL	MoTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:27	EPA 200.8	0	0.1	0.097	0.000081	0.0005	mg/L	97	0	85	115	0
10562853	749576_10562853	3998066LCS_10562853	3998066		LCS	INITIAL	MoTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:23	EPA 200.8	0	0.1	0.098	0.000081	0.0005	mg/L	98	0	85	115	0
10562853	749576_10562853	3998065BLANK_10562853	3998065		MB	INITIAL	MoTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:20	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562853	750429_10562853	4002321BLANK_10562853	4002321		MB	INITIAL	MoTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:34	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10562853	750429_10562853	4002322LCS_10562853	4002322		LCS	INITIAL	MoTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:37	EPA 200.8	0	0.1	0.093	0.000081	0.0005	mg/L	93	0	85	115	0
10562853	750429_10562853	SWWW0054-052621MS	4002323	SWWW0054-052621	MS	INITIAL	MoTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:51	EPA 200.8	0.41	0.1	0.54	0.000081	0.0005	mg/L	129	0	70	130	0
10562853	750429_10562853	SWWW0054-052621MSD	4002324	SWWW0054-052621	MSD	INITIAL	MoTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:54	EPA 200.8	0.41	0.1	0.54	0.000081	0.0005	mg/L	137	2	70	130	20
10562853	746644_10562853	SWWW0045-052621MSD	3982648	SWWW0045-052621	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-04 12:34	METHOD	2021-06-04 12:34	SM 4500-NO3-H	0.39	2.5	2.3	0.078	0.2	mg/L	78	2	80	120	20
10562853	746644_10562853	SWWW0045-052621MS	3982647	SWWW0045-052621	MS	INITIAL	NO3/NO2-N	T	1	2021-06-04 12:33	METHOD	2021-06-04 12:33	SM 4500-NO3-H	0.39	2.5	2.4	0.078	0.2	mg/L	80	0	80	120	0
10562853	746644_10562853	3982643BLANK_10562853	3982643		MB	INITIAL	NO3/NO2-N	T	1	2021-06-04 12:18	METHOD	2021-06-04 12:18	SM 4500-NO3-H	0	0	0.085	0.078	0.2	mg/L	0	0	0	0	0
10562853	746644_10562853	3982644LCS_10562853	3982644		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-04 12:18	METHOD	2021-06-04 12:18	SM 4500-NO3-H	0	2.5	2.6	0.078	0.2	mg/L	103	0	90	110	0
10562853	749322_10562853	3996781BLANK_10562853	3996781		MB	INITIAL	NO3/NO2-N	T	1	2021-06-16 09:46	METHOD	2021-06-16 09:46	SM 4500-NO3-H	0	0	0.082	0.078	0.2	mg/L	0	0	0	0	0
10562853	749322_10562853	3996782LCS_10562853	3996782		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-16 09:46	METHOD	2021-06-16 09:46	SM 4500-NO3-H	0	2.5	2.4	0.078	0.2	mg/L	96	0	90	110	0
10562853	749322_10562853	SWWW0056-052621MS	3996783	SWWW0056-052621	MS	INITIAL	NO3/NO2-N	T	1	2021-06-16 09:50	METHOD	2021-06-16 09:50	SM 4500-NO3-H	0.67	2.5	3	0.078	0.2	mg/L	94	0	80	120	0
10562853	749322_10562853	SWWW0056-052621MSD	3996784	SWWW0056-052621	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-16 09:51	METHOD	2021-06-16 09:51	SM 4500-NO3-H	0.67	2.5	3.2	0.078	0.2	mg/L	103	7	80	120	20
10562853	749322_10562853	SWWW0065-052621MS	3996785	SWWW0065-052621	MS	INITIAL	NO3/NO2-N	T	1	2021-06-16 10:05	METHOD	2021-06-16 10:05	SM 4500-NO3-H	0.41	2.5	2.9	0.078	0.2	mg/L	100	0	80	120	0
10562853	749322_10562853	SWWW0065-052621MSD	3996786	SWWW0065-052621	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-16 10:05	METHOD	2021-06-16 10:05	SM 4500-NO3-H	0.41	2.5	2.9	0.078	0.2	mg/L	98	1	80	120	20
10562853	749323_10562853	SWWW0076-052621MS	3996790	SWWW0076-052621	MS	INITIAL	NO3/NO2-N	T	1	2021-06-16 10:28	METHOD	2021-06-16 10:28	SM 4500-NO3-H	0.52	2.5	3.2	0.078	0.2	mg/L	107	0	80	120	0
10562853	749323_10562853	SWWW0076-052621MSD	3996791	SWWW0076-052621	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-16 10:29	METHOD	2021-06-16 10:29	SM 4500-NO3-H	0.52	2.5	3.1	0.078	0.2	mg/L	104	3	80	120	20
10562853	749323_10562853	3996788BLANK_10562853	3996788		MB	INITIAL	NO3/NO2-N	T	1	2021-06-16 10:21	METHOD	2021-06-16 10:21	SM 4500-NO3-H	0	0	0.084	0.078	0.2	mg/L	0	0	0	0	0
10562853	749323_10562853	3996789LCS_10562853	3996789		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-16 10:23	METHOD	2021-06-16 10:23	SM 4500-NO3-H	0	2.5	2.5	0.078	0.2	mg/L	101	0	90	110	0
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	PbDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	101	0	85	115	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	PbDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	PbDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	PbDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	100	0	85	115	0
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	PbDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	0.00019	0.1	0.11	0.00022	0.0005	mg/L	105	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	PbDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.00028	0.1	0.11	0.00022	0.0005	mg/L	107	7	70	130	20
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	PbDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.00028	0.1	0.099	0.00022	0.0005	mg/L	99	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	INITIAL	PbDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:24	EPA 200.8	0.00036	0.1	0.1	0.000043	0.0001	mg/L	101	2	70	130	20
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	INITIAL	PbDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:20	EPA 200.8	0.00036	0.1	0.099	0.000043	0.0001	mg/L	99	0	70	130	0
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	INITIAL	PbDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 11:10	EPA 200.8	0.00028	0.1	0.097	0.000043	0.0001	mg/L	97	0	70	130	0
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	INITIAL	PbDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:07	EPA 200.8	0	0.1	0.099	0.000043	0.0001	mg/L	99	0	85	115	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	INITIAL	PbDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:04	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562853	748275_10562853	3991471LCS_10562853	3991471		LCS	INITIAL	PbTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:24	EPA 200.8	0	0.1	0.097	0.000043	0.0001	mg/L	97	0	85	115	0
10562853	748275_10562853	3991470BLANK_10562853	3991470		MB	INITIAL	PbTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:20	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562853	748275_10562853	SWWW0055-052621MS	3991474	SWWW0055-052621	MS	INITIAL	PbTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 11:18	EPA 200.8	0.006	0.1	0.096	0.00022	0.0005	mg/L	90	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MS	3991472	SWWW0045-052621	MS	INITIAL	PbTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:36	EPA 200.8	0.0029	0.1	0.097	0.00022	0.0005	mg/L	94	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MSD	3991473	SWWW0045-052621	MSD	INITIAL	PbTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:39	EPA 200.8	0.0029	0.1	0.095	0.00022	0.0005	mg/L	92	3	70	130	20
10562853	748276_10562853	SWWW0065-052621MS	3991477	SWWW0065-052621	MS	INITIAL	PbTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:41	EPA 200.8	0.0043	0.1	0.11	0.000043	0.0001	mg/L	102	0	70	130	0
10562853	748276_10562853	SWWW0065-052621MSD	3991478	SWWW0065-052621	MSD	INITIAL	PbTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:45	EPA 200.8	0.0043	0.1	0.11	0.000043	0.0001	mg/L	104	1	70	130	20
10562853	748276_10562853	SWWW0075-052621MS	3991479	SWWW0075-052621	MS	INITIAL	PbTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 11:32	EPA 200.8	0.0067	0.1	0.1	0.000043	0.0001	mg/L	98	0	70	130	0
10562853	748276_10562853	3991476LCS_10562853	3991476		LCS	INITIAL	PbTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:27	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	102	0	85	115	0
10562853	748276_10562853	3991475BLANK_10562853	3991475		MB	INITIAL	PbTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:23	EPA 200.8	0	0	0.000046	0.000043	0.0001	mg/L	0	0	0	0	0
10562853	749576_10562853	3998066LCS_10562853	3998066		LCS	INITIAL	PbTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:23	EPA 200.8	0	0.1	0.099	0.000043	0.0001	mg/L	99	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562853	749576_10562853	3998065BLANK_10562853	3998065		MB	INITIAL	PbTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:20	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562853	750429_10562853	4002322LCS_10562853	4002322		LCS	INITIAL	PbTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:37	EPA 200.8	0	0.1	0.098	0.000043	0.0001	mg/L	98	0	85	115	0
10562853	750429_10562853	4002321BLANK_10562853	4002321		MB	INITIAL	PbTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:34	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10562853	750429_10562853	SWWW0054-052621MS	4002323	SWWW0054-052621	MS	INITIAL	PbTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:51	EPA 200.8	0.0049	0.1	0.1	0.000043	0.0001	mg/L	97	0	70	130	0
10562853	750429_10562853	SWWW0054-052621MSD	4002324	SWWW0054-052621	MSD	INITIAL	PbTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:54	EPA 200.8	0.0049	0.1	0.1	0.000043	0.0001	mg/L	99	2	70	130	20
10562853	748928_10562853	SWWW0046-052621MS	3994917	SWWW0046-052621	MS	INITIAL	SO4	T	5	2021-06-14 01:24	METHOD	2021-06-14 01:24	ASTM D516-90-02	36.6	20	53.1	6	12.5	mg/L	82	0	80	120	0
10562853	748928_10562853	SWWW0046-052621MSD	3994918	SWWW0046-052621	MSD	INITIAL	SO4	T	5	2021-06-14 01:25	METHOD	2021-06-14 01:25	ASTM D516-90-02	36.6	20	52.6	6	12.5	mg/L	80	1	80	120	30
10562853	748928_10562853	SWWW0045-052621MS	3994915	SWWW0045-052621	MS	INITIAL	SO4	T	5	2021-06-14 01:23	METHOD	2021-06-14 01:23	ASTM D516-90-02	33.3	20	52.1	6	12.5	mg/L	94	0	80	120	0
10562853	748928_10562853	SWWW0045-052621MSD	3994916	SWWW0045-052621	MSD	INITIAL	SO4	T	5	2021-06-14 01:24	METHOD	2021-06-14 01:24	ASTM D516-90-02	33.3	20	50.8	6	12.5	mg/L	88	2	80	120	30
10562853	748928_10562853	3994912BLANK_10562853	3994912		MB	INITIAL	SO4	T	1	2021-06-14 12:53	METHOD	2021-06-14 12:53	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10562853	748928_10562853	3994913LCS_10562853	3994913		LCS	INITIAL	SO4	T	1	2021-06-14 12:53	METHOD	2021-06-14 12:53	ASTM D516-90-02	0	20	18.8	1.2	2.5	mg/L	94	0	80	120	0
10562853	748928_10562853	3994914LCSD_10562853	3994914	3994913LCS_10562853	LCSD	INITIAL	SO4	T	1	2021-06-14 12:54	METHOD	2021-06-14 12:54	ASTM D516-90-02	0	20	19.1	1.2	2.5	mg/L	96	2	80	120	20
10562853	748981_10562853	3995183BLANK_10562853	3995183		MB	INITIAL	SO4	T	1	2021-06-14 02:33	METHOD	2021-06-14 02:33	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10562853	748981_10562853	3995184LCS_10562853	3995184		LCS	INITIAL	SO4	T	1	2021-06-14 02:34	METHOD	2021-06-14 02:34	ASTM D516-90-02	0	20	19.1	1.2	2.5	mg/L	96	0	80	120	0
10562853	748981_10562853	3995185LCSD_10562853	3995185	3995184LCS_10562853	LCSD	INITIAL	SO4	T	1	2021-06-14 02:34	METHOD	2021-06-14 02:34	ASTM D516-90-02	0	20	18.9	1.2	2.5	mg/L	95	1	80	120	20
10562853	748981_10562853	SWWW0065-052621MSD	3995189	SWWW0065-052621	MSD	INITIAL	SO4	T	2	2021-06-14 03:03	METHOD	2021-06-14 03:03	ASTM D516-90-02	31.5	10	49.1	2.4	5	mg/L	177	2	80	120	30
10562853	748981_10562853	SWWW0060-052621MS	3995186	SWWW0060-052621	MS	INITIAL	SO4	T	20	2021-06-14 03:01	METHOD	2021-06-14 03:01	ASTM D516-90-02	380	10	402	24.2	50	mg/L	221	0	80	120	0
10562853	748981_10562853	SWWW0060-052621MSD	3995187	SWWW0060-052621	MSD	INITIAL	SO4	T	20	2021-06-14 03:01	METHOD	2021-06-14 03:01	ASTM D516-90-02	380	10	367	24.2	50	mg/L	0	9	80	120	30
10562853	748981_10562853	SWWW0065-052621MS	3995188	SWWW0065-052621	MS	INITIAL	SO4	T	2	2021-06-14 03:02	METHOD	2021-06-14 03:02	ASTM D516-90-02	31.5	10	50.1	2.4	5	mg/L	187	0	80	120	0
10562853	748994_10562853	SWWW0080-052621MS	3995257	SWWW0080-052621	MS	INITIAL	SO4	T	50	2021-06-15 11:44	METHOD	2021-06-15 11:44	ASTM D516-90-02	664	1000	1720	60.5	125	mg/L	106	0	80	120	0
10562853	748994_10562853	SWWW0080-052621MSD	3995258	SWWW0080-052621	MSD	INITIAL	SO4	T	50	2021-06-15 11:44	METHOD	2021-06-15 11:44	ASTM D516-90-02	664	1000	1750	60.5	125	mg/L	108	1	80	120	30
10562853	748994_10562853	3995254BLANK_10562853	3995254		MB	INITIAL	SO4	T	1	2021-06-15 11:42	METHOD	2021-06-15 11:42	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10562853	748994_10562853	3995255LCS_10562853	3995255		LCS	INITIAL	SO4	T	1	2021-06-15 11:42	METHOD	2021-06-15 11:42	ASTM D516-90-02	0	20	17.8	1.2	2.5	mg/L	89	0	80	120	0
10562853	748994_10562853	3995256LCSD_10562853	3995256	3995255LCS_10562853	LCSD	INITIAL	SO4	T	1	2021-06-15 11:43	METHOD	2021-06-15 11:43	ASTM D516-90-02	0	20	17.4	1.2	2.5	mg/L	87	2	80	120	20
10562853	745909_10562853	3978851BLANK_10562853	3978851		MB	INITIAL	TDS	D	1	2021-06-02 07:20	METHOD	2021-06-02 07:20	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10562853	745909_10562853	3978852LCS_10562853	3978852		LCS	INITIAL	TDS	D	1	2021-06-02 07:20	METHOD	2021-06-02 07:20	SM 2540C	0	1000	1160	10	20	mg/L	116	0	80	120	0
10562853	745909_10562853	SWWW0065-052621DUP	3978854	SWWW0065-052621	LR	INITIAL	TDS	D	1	2021-06-02 07:20	METHOD	2021-06-02 07:20	SM 2540C	179	0	165	5	10	mg/L	0	8	0	0	5
10562853	745909_10562853	SWWW0045-052621DUP	3978853	SWWW0045-052621	LR	INITIAL	TDS	D	1	2021-06-02 07:20	METHOD	2021-06-02 07:20	SM 2540C	178	0	178	5	10	mg/L	0	0	0	0	5
10562853	745911_10562853	SWWW0066-052621DUP	3978861	SWWW0066-052621	LR	INITIAL	TDS	D	1	2021-06-02 08:45	METHOD	2021-06-02 08:45	SM 2540C	171	0	163	5	10	mg/L	0	5	0	0	5
10562853	745911_10562853	SWWW0067-052621DUP	3978862	SWWW0067-052621	LR	INITIAL	TDS	D	1	2021-06-02 08:45	METHOD	2021-06-02 08:45	SM 2540C	184	0	179	5	10	mg/L	0	3	0	0	5
10562853	745911_10562853	3978859BLANK_10562853	3978859		MB	INITIAL	TDS	D	1	2021-06-02 08:45	METHOD	2021-06-02 08:45	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10562853	745911_10562853	3978860LCS_10562853	3978860		LCS	INITIAL	TDS	D	1	2021-06-02 08:45	METHOD	2021-06-02 08:45	SM 2540C	0	1000	1140	10	20	mg/L	114	0	80	120	0
10562853	745913_10562853	3978867BLANK_10562853	3978867		MB	INITIAL	TDS	D	1	2021-06-02 06:11	METHOD	2021-06-02 06:11	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10562853	745913_10562853	3978868LCS_10562853	3978868		LCS	INITIAL	TDS	D	1	2021-06-02 06:11	METHOD	2021-06-02 06:11	SM 2540C	0	1000	1160	10	20	mg/L	116	0	80	120	0
10562853	746693_10562853	3982945BLANK_10562853	3982945		MB	INITIAL	TDS	D	1	2021-06-04 08:59	METHOD	2021-06-04 08:59	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10562853	746693_10562853	3982946LCS_10562853	3982946		LCS	INITIAL	TDS	D	1	2021-06-04 08:59	METHOD	2021-06-04 08:59	SM 2540C	0	1000	1070	10	20	mg/L	107	0	80	120	0
10562853	745910_10562853	3978855BLANK_10562853	3978855		MB	INITIAL	TSS	T	1	2021-06-02 07:15	METHOD	2021-06-02 07:15	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10562853	745910_10562853	3978856LCS_10562853	3978856		LCS	INITIAL	TSS	T	1	2021-06-02 07:15	METHOD	2021-06-02 07:15	SM 2540D	0	100	120	10	20	mg/L	120	0	80	120	0
10562853	745910_10562853	SWWW0045-052621DUP	3978857	SWWW0045-052621	LR	INITIAL	TSS	T	1	2021-06-02 07:15	METHOD	2021-06-02 07:15	SM 2540D	21.3	0	24	5	10	mg/L	0	12	0	0	5
10562853	745910_10562853	SWWW0065-052621DUP	3978858	SWWW0065-052621	LR	INITIAL	TSS	T	1	2021-06-02 07:15	METHOD	2021-06-02 07:15	SM 2540D	27	0	26.5	5	10	mg/L	0	2	0	0	5
10562853	745912_10562853	SWWW0067-052621DUP	3978866	SWWW0067-052621	LR	INITIAL	TSS	T	1	2021-06-02 08:41	METHOD	2021-06-02 08:41	SM 2540D	7.4	0	8.8	5	10	mg/L	0	0	0	0	5
10562853	745912_10562853	SWWW0066-052621DUP	3978865	SWWW0066-052621	LR	INITIAL	TSS	T	1	2021-06-02 08:41	METHOD	2021-06-02 08:41	SM 2540D	44.5	0	48.9	5	10	mg/L	0	9	0	0	5
10562853	745912_10562853	3978863BLANK_10562853	3978863		MB	INITIAL	TSS	T	1	2021-06-02 08:41	METHOD	2021-06-02 08:41	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10562853	745912_10562853	3978864LCS_10562853	3978864		LCS	INITIAL	TSS	T	1	2021-06-02 08:41	METHOD	2021-06-02 08:41	SM 2540D	0	100	104	10	20	mg/L	104	0	80	120	0
10562853	745916_10562853	3978878BLANK_10562853	3978878		MB	INITIAL	TSS	T	1	2021-06-02 10:50	METHOD	2021-06-02 10:50	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10562853	745916_10562853	3978879LCS_10562853	3978879		LCS	INITIAL	TSS	T	1	2021-06-02 10:50	METHOD	2021-06-02 10:50	SM 2540D	0	100	112	10	20	mg/L	112	0	80	120	0
10562853	746372_10562853	3981151BLANK_10562853	3981151		MB	INITIAL	TSS	T	1	2021-06-03 09:28	METHOD	2021-06-03 09:28	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10562853	746372_10562853	3981152LCS_10562853	3981152		LCS	INITIAL	TSS	T	1	2021-06-03 09:28	METHOD	2021-06-03 09:28	SM 2540D	0	100	120	10	20	mg/L	120	0	80	120	0
10562853	748271_10562853	3991450LCS_10562853	3991450		LCS	INITIAL	ZnDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:43	EPA 200.8	0	0.1	0.098	0.0023	0.005	mg/L	98	0	85	115	0
10562853	748271_10562853	3991449BLANK_10562853	3991449		MB	INITIAL	ZnDis	D	1	2021-06-11 09:04	EPA 200.8	2021-06-15 09:40	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562853	748272_10562853	3991455LCS_10562853	3991455		LCS	INITIAL	ZnDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:30	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	100	0	85	115	0
10562853	748272_10562853	3991454BLANK_10562853	3991454		MB	INITIAL	ZnDis	D	1	2021-06-13 08:25	EPA 200.8	2021-06-14 08:27	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10562853	748272_10562853	SWWW0055-052621MS	3991458	SWWW0055-052621	MS	INITIAL	ZnDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 10:32	EPA 200.8	0.012	0.1	0.12	0.011	0.025	mg/L	112	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MS	3991456	SWWW0045-052621	MS	INITIAL	ZnDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:44	EPA 200.8	0.0049	0.1	0.11	0.011	0.025	mg/L	103	0	70	130	0
10562853	748272_10562853	SWWW0045-052621MSD	3991457	SWWW0045-052621	MSD	INITIAL	ZnDis	D	5	2021-06-13 08:25	EPA 200.8	2021-06-14 08:47	EPA 200.8	0.0049	0.1	0.11	0.011	0.025	mg/L	108	4	70	130	20
10562853	749998_10562853	SWWW0065-052621MS	4000069	SWWW0065-052621	MS	INITIAL	ZnDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:20	EPA 200.8	0.0052	0.1	0.1	0.0023	0.005	mg/L	98	0	70	130	0
10562853	749998_10562853	SWWW0065-052621MSD	4000070	SWWW0065-052621	MSD	INITIAL	ZnDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:24	EPA 200.8	0.0052	0.1	0.11	0.0023	0.005	mg/L	100	2	70	130	20
10562853	749998_10562853	SWWW0075-052621MS	4000071	SWWW0075-052621	MS	INITIAL	ZnDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 11:10	EPA 200.8	0.0095	0.1	0.11	0.0023	0.005	mg/L	100	0	70	130	0
10562853	749998_10562853	4000067BLANK_10562853	4000067		MB	INITIAL	ZnDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:04	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562853	749998_10562853	4000068LCS_10562853	4000068		LCS	INITIAL	ZnDis	D	1	2021-06-17 02:25	EPA 200.8	2021-06-18 10:07	EPA 200.8	0	0.1	0.099	0.0023	0.005	mg/L	99	0	85	115	0
10562853	748275_10562853	3991470BLANK_10562853	3991470		MB	INITIAL	ZnTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:20	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562853	748275_10562853	3991471LCS_10562853	3991471		LCS	INITIAL	ZnTR	T	1	2021-06-13 08:25	EPA 200.8	2021-06-15 10:24	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	101	0	85	115	0
10562853	748275_10562853	SWWW0055-052621MS	3991474	SWWW0055-052621	MS	INITIAL	ZnTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 11:18	EPA 200.8	0.039	0.1	0.14	0.011	0.025	mg/L	100	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MS	3991472	SWWW0045-052621	MS	INITIAL	ZnTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:36	EPA 200.8	0.031	0.1	0.13	0.011	0.025	mg/L	101	0	70	130	0
10562853	748275_10562853	SWWW0045-052621MSD	3991473	SWWW0045-052621	MSD	INITIAL	ZnTR	T	5	2021-06-13 08:25	EPA 200.8	2021-06-15 10:39	EPA 200.8	0.031	0.1	0.13	0.011	0.025	mg/L	96	4	70	130	20
10562853	748276_10562853	SWWW0065-052621MS	3991477	SWWW0065-052621	MS	INITIAL	ZnTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:41	EPA 200.8	0.029	0.1	0.13	0.0023	0.005	mg/L	104	0	70	130	0
10562853	748276_10562853	SWWW0065-052621MSD	3991478	SWWW0065-052621	MSD	INITIAL	ZnTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:45	EPA 200.8	0.029	0.1	0.13	0.0023	0.005	mg/L	103	1	70	130	20
10562853	748276_10562853	SWWW0075-052621MS	3991479	SWWW0075-052621	MS	INITIAL	ZnTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 11:32	EPA 200.8	0.037	0.1	0.14	0.0023	0.005	mg/L	100	0	70	130	0
10562853	748276_10562853	3991476LCS_10562853	3991476		LCS	INITIAL	ZnTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:27	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	102	0	85	115	0
10562853	748276_10562853	3991475BLANK_10562853	3991475		MB	INITIAL	ZnTR	T	1	2021-06-14 01:35	EPA 200.8	2021-06-15 10:23	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562853	749576_10562853	3998065BLANK_10562853	3998065		MB	INITIAL	ZnTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:20	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562853	749576_10562853	3998066LCS_10562853	3998066		LCS	INITIAL	ZnTR	T	1	2021-06-16 02:56	EPA 200.8	2021-06-18 12:23	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	103	0	85	115	0
10562853	750429_10562853	4002321BLANK_10562853	4002321		MB	INITIAL	ZnTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:34	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10562853	750429_10562853	SWWW0054-052621MSD	4002324	SWWW0054-052621	MSD	INITIAL	ZnTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:54	EPA 200.8	0.032	0.1	0.13	0.0023	0.005	mg/L	97	3	70	130	20
10562853	750429_10562853	SWWW0054-052621MS	4002323	SWWW0054-052621	MS	INITIAL	ZnTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:51	EPA 200.8	0.032	0.1	0.12	0.0023	0.005	mg/L	93	0	70	130	0
10562853	750429_10562853	4002322LCS_10562853	4002322		LCS	INITIAL	ZnTR	T	1	2021-06-20 07:46	EPA 200.8	2021-06-21 12:37	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	101	0	85	115	0
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	AgDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	0.05	0.053	0.000077	0.0005	mg/L	105	0	85	115	0
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	AgDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	AgDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	0.000028	0.05	0.052	0.000077	0.0005	mg/L	104	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	AgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	AgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	0.05	0.055	0.000077	0.0005	mg/L	109	0	85	115	0
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	AgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	0.00016	0.05	0.051	0.000077	0.0005	mg/L	102	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	AgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	0.00016	0.05	0.053	0.000077	0.0005	mg/L	106	4	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	AgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	0	0.05	0.051	0.000077	0.0005	mg/L	103	0	70	130	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	AgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	0	0.05	0.053	0.000077	0.0005	mg/L	107	4	70	130	20
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	AgDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	0.000073	0.05	0.047	0.00038	0.0025	mg/L	93	0	70	130	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	AgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	AgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	0.05	0.047	0.000077	0.0005	mg/L	94	0	85	115	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	AgDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	0.000073	0.05	0.046	0.00038	0.0025	mg/L	92	2	70	130	20
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	AgDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	0	0.05	0.048	0.00038	0.0025	mg/L	97	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	AgDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	0.000028	0.05	0.052	0.00082	0.0025	mg/L	105	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	AgDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	0.000028	0.05	0.055	0.00082	0.0025	mg/L	110	5	70	130	20
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	AgDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	AgDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	0.05	0.056	0.00016	0.0005	mg/L	112	0	85	115	0
10565256	750657_10565256	4003824BLANK_10565256	4003824		MB	INITIAL	AgTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:16	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10565256	750657_10565256	4003825LCS_10565256	4003825		LCS	INITIAL	AgTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:26	EPA 200.8	0	0.05	0.053	0.000077	0.0005	mg/L	107	0	85	115	0
10565256	750657_10565256	SWWW0127-061021MS	4003828	SWWW0127-061021	MS	INITIAL	AgTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 11:59	EPA 200.8	0	0.05	0.049	0.000077	0.0005	mg/L	98	0	70	130	0
10565256	751106_10565256	4005791BLANK_10565256	4005791		MB	INITIAL	AgTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:18	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10565256	751106_10565256	4005792LCS_10565256	4005792		LCS	INITIAL	AgTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:21	EPA 200.8	0	0.05	0.055	0.000077	0.0005	mg/L	110	0	85	115	0
10565256	751106_10565256	SWWW0107-061021MS	4005795	SWWW0107-061021	MS	INITIAL	AgTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:49	EPA 200.8	0.000013	0.05	0.051	0.000077	0.0005	mg/L	101	0	70	130	0
10565256	751106_10565256	SWWW0107-061021MSD	4005796	SWWW0107-061021	MSD	INITIAL	AgTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:52	EPA 200.8	0.000013	0.05	0.05	0.000077	0.0005	mg/L	100	1	70	130	20
10565256	751106_10565256	SWWW0089-061021MS	4005793	SWWW0089-061021	MS	INITIAL	AgTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:33	EPA 200.8	0.000034	0.05	0.051	0.000077	0.0005	mg/L	103	0	70	130	0
10565256	751106_10565256	SWWW0089-061021MSD	4005794	SWWW0089-061021	MSD	INITIAL	AgTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:36	EPA 200.8	0.000034	0.05	0.049	0.000077	0.0005	mg/L	98	5	70	130	20
10565256	752887_10565256	SWWW0109-061021MS	4014647	SWWW0109-061021	MS	INITIAL	AgTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:39	EPA 200.8	0.00018	0.05	0.053	0.000077	0.0005	mg/L	106	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	752887_10565256	4014645BLANK_10565256	4014645		MB	INITIAL	AgTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:23	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10565256	752887_10565256	4014646LCS_10565256	4014646		LCS	INITIAL	AgTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:26	EPA 200.8	0	0.05	0.052	0.000077	0.0005	mg/L	103	0	85	115	0
10565256	752887_10565256	SWWW0120-061021MS	4014649	SWWW0120-061021	MS	INITIAL	AgTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 08:29	EPA 200.8	0.000015	0.05	0.05	0.000077	0.0005	mg/L	101	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MSD	4014648	SWWW0109-061021	MSD	INITIAL	AgTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:42	EPA 200.8	0.00018	0.05	0.052	0.000077	0.0005	mg/L	103	3	70	130	20
10565256	757553_10565256	4039934BLANK_10565256	4039934		MB	INITIAL	AgTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:44	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10565256	757553_10565256	4039935LCS_10565256	4039935		LCS	REANALYSIS	AgTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-22 10:45	EPA 200.8	0	0.05	0.056	0.00016	0.0005	mg/L	112	0	85	115	0
10565256	757553_10565256	4040363LCSD_10565256	4040363	4039935LCS_10565256	LCSD	INITIAL	AgTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:50	EPA 200.8	0	0.05	0.057	0.00016	0.0005	mg/L	113	1	85	115	20
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	AlDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	2	2	0.0071	0.02	mg/L	102	0	85	115	0
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	AlDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	AlDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	0.015	2	2.1	0.0071	0.02	mg/L	102	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	AlDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	AlDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	2	2.1	0.0071	0.02	mg/L	103	0	85	115	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	AlDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	0.01	2	2	0.0071	0.02	mg/L	101	2	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	AlDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	0.01	2	2.1	0.0071	0.02	mg/L	103	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	AlDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	0.019	2	1.9	0.0071	0.02	mg/L	96	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	AlDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	0.019	2	2	0.0071	0.02	mg/L	99	3	70	130	20
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	AlDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	0.01	2	2	0.036	0.1	mg/L	100	0	70	130	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	AlDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	0.01	2	2	0.036	0.1	mg/L	98	2	70	130	20
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	AlDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	AlDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	2	1.9	0.0071	0.02	mg/L	97	0	85	115	0
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	AlDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	0.042	2	2.2	0.036	0.1	mg/L	110	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	AlDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	0.15	2	2.4	0.04	0.1	mg/L	112	7	70	130	20
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	AlDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	0.15	2	2.2	0.04	0.1	mg/L	104	0	70	130	0
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	AlDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	103	0	85	115	0
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	AlDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10565256	751638_10565256	4008387BLANK_10565256	4008387		MB	INITIAL	ALK_CaCO3	T	1	2021-06-23 10:28	METHOD	2021-06-23 10:28	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10565256	751638_10565256	4008388LCS_10565256	4008388		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-23 10:31	METHOD	2021-06-23 10:31	SM 2320B	0	40	42.9	1.8	5	mg/L	107	0	90	110	0
10565256	751638_10565256	4008389LCSD_10565256	4008389	4008388LCS_10565256	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-23 10:34	METHOD	2021-06-23 10:34	SM 2320B	0	40	43.5	1.8	5	mg/L	109	1	90	110	20
10565256	751638_10565256	SWWW0089-061021MSD	4008393	SWWW0089-061021	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-24 12:49	METHOD	2021-06-24 12:49	SM 2320B	83.1	40	123	1.8	5	mg/L	100	0	80	120	20
10565256	751638_10565256	SWWW0089-061021MS	4008392	SWWW0089-061021	MS	INITIAL	ALK_CaCO3	T	1	2021-06-24 12:45	METHOD	2021-06-24 12:45	SM 2320B	83.1	40	123	1.8	5	mg/L	100	0	80	120	0
10565256	751940_10565256	SWWW0095-061021MS	4010057	SWWW0095-061021	MS	INITIAL	ALK_CaCO3	T	1	2021-07-01 03:10	METHOD	2021-07-01 03:10	SM 2320B	51.3	40	85.8	1.8	5	mg/L	86	0	80	120	0
10565256	751940_10565256	SWWW0095-061021MSD	4010058	SWWW0095-061021	MSD	INITIAL	ALK_CaCO3	T	1	2021-07-01 03:16	METHOD	2021-07-01 03:16	SM 2320B	51.3	40	84.2	1.8	5	mg/L	82	2	80	120	20
10565256	751940_10565256	4010054BLANK_10565256	4010054		MB	INITIAL	ALK_CaCO3	T	1	2021-07-01 02:56	METHOD	2021-07-01 02:56	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10565256	751940_10565256	4010055LCS_10565256	4010055		LCS	INITIAL	ALK_CaCO3	T	1	2021-07-01 02:59	METHOD	2021-07-01 02:59	SM 2320B	0	40	41.5	1.8	5	mg/L	104	0	90	110	0
10565256	751940_10565256	4010056LCSD_10565256	4010056	4010055LCS_10565256	LCSD	INITIAL	ALK_CaCO3	T	1	2021-07-01 03:02	METHOD	2021-07-01 03:02	SM 2320B	0	40	41.4	1.8	5	mg/L	104	0	90	110	20
10565256	751943_10565256	4010090BLANK_10565256	4010090		MB	INITIAL	ALK_CaCO3	T	1	2021-06-24 05:57	METHOD	2021-06-24 05:57	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10565256	751943_10565256	4010091LCS_10565256	4010091		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-24 06:00	METHOD	2021-06-24 06:00	SM 2320B	0	40	42.7	1.8	5	mg/L	107	0	90	110	0
10565256	751943_10565256	4010092LCSD_10565256	4010092	4010091LCS_10565256	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-24 06:03	METHOD	2021-06-24 06:03	SM 2320B	0	40	42.2	1.8	5	mg/L	106	1	90	110	20
10565256	751943_10565256	SWWW0099-061021MS	4010093	SWWW0099-061021	MS	INITIAL	ALK_CaCO3	T	1	2021-06-24 06:11	METHOD	2021-06-24 06:11	SM 2320B	50.4	40	89.8	1.8	5	mg/L	99	0	80	120	0
10565256	751943_10565256	SWWW0099-061021MSD	4010094	SWWW0099-061021	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-24 06:15	METHOD	2021-06-24 06:15	SM 2320B	50.4	40	90.3	1.8	5	mg/L	100	0	80	120	20
10565256	751943_10565256	SWWW0107-061021MSD	4010096	SWWW0107-061021	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-24 07:13	METHOD	2021-06-24 07:13	SM 2320B	83.4	40	124	1.8	5	mg/L	101	0	80	120	20
10565256	751943_10565256	SWWW0107-061021MS	4010095	SWWW0107-061021	MS	INITIAL	ALK_CaCO3	T	1	2021-06-24 07:08	METHOD	2021-06-24 07:08	SM 2320B	83.4	40	124	1.8	5	mg/L	101	0	80	120	0
10565256	751962_10565256	4010329BLANK_10565256	4010329		MB	INITIAL	ALK_CaCO3	T	1	2021-06-30 05:50	METHOD	2021-06-30 05:50	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10565256	751962_10565256	4010330LCS_10565256	4010330		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-30 06:00	METHOD	2021-06-30 06:00	SM 2320B	0	40	42	1.8	5	mg/L	105	0	90	110	0
10565256	751962_10565256	4010331LCSD_10565256	4010331	4010330LCS_10565256	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-30 05:55	METHOD	2021-06-30 05:55	SM 2320B	0	40	41.9	1.8	5	mg/L	105	0	90	110	20
10565256	751962_10565256	SWWW0119-061021MS	4010332	SWWW0119-061021	MS	INITIAL	ALK_CaCO3	T	1	2021-06-30 06:08	METHOD	2021-06-30 06:08	SM 2320B	57.1	40	92.7	1.8	5	mg/L	89	0	80	120	0
10565256	751962_10565256	SWWW0119-061021MSD	4010333	SWWW0119-061021	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-30 06:13	METHOD	2021-06-30 06:13	SM 2320B	57.1	40	90.4	1.8	5	mg/L	83	2	80	120	20
10565256	752156_10565256	SWWW0132-061421MS	4011386	SWWW0132-061421	MS	INITIAL	ALK_CaCO3	T	1	2021-06-25 03:55	METHOD	2021-06-25 03:55	SM 2320B	1.2	40	42.6	1.8	5	mg/L	104	0	80	120	0
10565256	752156_10565256	SWWW0132-061421MSD	4011387	SWWW0132-061421	MSD	INITIAL	ALK_CaCO3	T	1	2021-06-25 03:58	METHOD	2021-06-25 03:58	SM 2320B	1.2	40	43.6	1.8	5	mg/L	106	2	80	120	20
10565256	752156_10565256	4011383BLANK_10565256	4011383		MB	INITIAL	ALK_CaCO3	T	1	2021-06-25 03:45	METHOD	2021-06-25 03:45	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10565256	752156_10565256	4011384LCS_10565256	4011384		LCS	INITIAL	ALK_CaCO3	T	1	2021-06-25 03:48	METHOD	2021-06-25 03:48	SM 2320B	0	40	42.6	1.8	5	mg/L	107	0	90	110	0
10565256	752156_10565256	4011385LCSD_10565256	4011385	4011384LCS_10565256	LCSD	INITIAL	ALK_CaCO3	T	1	2021-06-25 03:50	METHOD	2021-06-25 03:50	SM 2320B	0	40	42.8	1.8	5	mg/L	107	0	90	110	20

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	750657_10565256	4003825LCS_10565256	4003825		LCS	INITIAL	AlTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:26	EPA 200.8	0	2	2.1	0.0071	0.02	mg/L	104	0	85	115	0
10565256	750657_10565256	4003824BLANK_10565256	4003824		MB	INITIAL	AlTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:16	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10565256	750657_10565256	SWWW0127-061021MS	4003828	SWWW0127-061021	MS	INITIAL	AlTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 11:59	EPA 200.8	0.25	2	2.4	0.0071	0.02	mg/L	107	0	70	130	0
10565256	751106_10565256	4005791BLANK_10565256	4005791		MB	INITIAL	AlTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:18	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10565256	751106_10565256	4005792LCS_10565256	4005792		LCS	INITIAL	AlTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:21	EPA 200.8	0	2	2.1	0.0071	0.02	mg/L	105	0	85	115	0
10565256	751106_10565256	SWWW0107-061021MSD	4005796	SWWW0107-061021	MSD	INITIAL	AlTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:52	EPA 200.8	0.22	2	2.2	0.0071	0.02	mg/L	98	4	70	130	20
10565256	751106_10565256	SWWW0107-061021MS	4005795	SWWW0107-061021	MS	INITIAL	AlTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:49	EPA 200.8	0.22	2	2.3	0.0071	0.02	mg/L	102	0	70	130	0
10565256	751106_10565256	SWWW0089-061021MS	4005793	SWWW0089-061021	MS	INITIAL	AlTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:33	EPA 200.8	0.27	2	2.3	0.0071	0.02	mg/L	100	0	70	130	0
10565256	751106_10565256	SWWW0089-061021MSD	4005794	SWWW0089-061021	MSD	INITIAL	AlTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:36	EPA 200.8	0.27	2	2.2	0.0071	0.02	mg/L	94	6	70	130	20
10565256	752887_10565256	SWWW0109-061021MS	4014647	SWWW0109-061021	MS	INITIAL	AlTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:39	EPA 200.8	0.72	2	2.8	0.0071	0.02	mg/L	103	0	70	130	0
10565256	752887_10565256	4014645BLANK_10565256	4014645		MB	INITIAL	AlTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:23	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10565256	752887_10565256	4014646LCS_10565256	4014646		LCS	INITIAL	AlTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:26	EPA 200.8	0	2	2	0.0071	0.02	mg/L	98	0	85	115	0
10565256	752887_10565256	SWWW0120-061021MS	4014649	SWWW0120-061021	MS	INITIAL	AlTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 08:29	EPA 200.8	0.05	2	2	0.0071	0.02	mg/L	95	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MSD	4014648	SWWW0109-061021	MSD	INITIAL	AlTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:42	EPA 200.8	0.72	2	2.7	0.0071	0.02	mg/L	100	2	70	130	20
10565256	757553_10565256	4039934BLANK_10565256	4039934		MB	INITIAL	AlTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:44	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10565256	757553_10565256	4039935LCS_10565256	4039935		LCS	INITIAL	AlTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:47	EPA 200.8	0	2	2.2	0.008	0.02	mg/L	108	0	85	115	0
10565256	757553_10565256	4040363LCSD_10565256	4040363	4039935LCS_10565256	LCSD	INITIAL	AlTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:50	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	107	1	85	115	20
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	AsDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	AsDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	103	0	85	115	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	AsDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	0.0023	0.1	0.11	0.00014	0.0005	mg/L	108	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	AsDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	AsDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	0.1	0.11	0.00014	0.0005	mg/L	107	0	85	115	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	AsDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	0.0026	0.1	0.11	0.00014	0.0005	mg/L	108	4	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	AsDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	0.0026	0.1	0.11	0.00014	0.0005	mg/L	103	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	AsDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	0.0028	0.1	0.11	0.00014	0.0005	mg/L	107	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	AsDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	0.0028	0.1	0.11	0.00014	0.0005	mg/L	106	0	70	130	20
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	AsDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	0.0029	0.1	0.096	0.0007	0.0025	mg/L	94	0	70	130	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	AsDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	AsDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	0.1	0.095	0.00014	0.0005	mg/L	95	0	85	115	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	AsDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	0.0029	0.1	0.1	0.0007	0.0025	mg/L	97	3	70	130	20
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	AsDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	0.0025	0.1	0.11	0.0007	0.0025	mg/L	105	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	AsDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	0.0031	0.1	0.11	0.00041	0.0025	mg/L	106	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	AsDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	0.0031	0.1	0.12	0.00041	0.0025	mg/L	113	6	70	130	20
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	AsDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	AsDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	104	0	85	115	0
10565256	750657_10565256	4003825LCS_10565256	4003825		LCS	INITIAL	AsTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:26	EPA 200.8	0	0.1	0.11	0.00014	0.0005	mg/L	106	0	85	115	0
10565256	750657_10565256	4003824BLANK_10565256	4003824		MB	INITIAL	AsTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:16	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10565256	750657_10565256	SWWW0127-061021MS	4003828	SWWW0127-061021	MS	INITIAL	AsTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 11:59	EPA 200.8	0.0033	0.1	0.11	0.00014	0.0005	mg/L	110	0	70	130	0
10565256	751106_10565256	4005791BLANK_10565256	4005791		MB	INITIAL	AsTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:18	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10565256	751106_10565256	4005792LCS_10565256	4005792		LCS	INITIAL	AsTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:21	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	103	0	85	115	0
10565256	751106_10565256	SWWW0107-061021MSD	4005796	SWWW0107-061021	MSD	INITIAL	AsTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:52	EPA 200.8	0.0029	0.1	0.1	0.00014	0.0005	mg/L	100	2	70	130	20
10565256	751106_10565256	SWWW0107-061021MS	4005795	SWWW0107-061021	MS	INITIAL	AsTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:49	EPA 200.8	0.0029	0.1	0.1	0.00014	0.0005	mg/L	102	0	70	130	0
10565256	751106_10565256	SWWW0089-061021MS	4005793	SWWW0089-061021	MS	INITIAL	AsTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:33	EPA 200.8	0.0032	0.1	0.1	0.00014	0.0005	mg/L	99	0	70	130	0
10565256	751106_10565256	SWWW0089-061021MSD	4005794	SWWW0089-061021	MSD	INITIAL	AsTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:36	EPA 200.8	0.0032	0.1	0.1	0.00014	0.0005	mg/L	98	2	70	130	20
10565256	752887_10565256	SWWW0109-061021MS	4014647	SWWW0109-061021	MS	INITIAL	AsTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:39	EPA 200.8	0.0043	0.1	0.11	0.00014	0.0005	mg/L	103	0	70	130	0
10565256	752887_10565256	4014646LCS_10565256	4014646		LCS	INITIAL	AsTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:26	EPA 200.8	0	0.1	0.098	0.00014	0.0005	mg/L	98	0	85	115	0
10565256	752887_10565256	4014645BLANK_10565256	4014645		MB	INITIAL	AsTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:23	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10565256	752887_10565256	SWWW0120-061021MS	4014649	SWWW0120-061021	MS	INITIAL	AsTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 08:29	EPA 200.8	0.0028	0.1	0.1	0.00014	0.0005	mg/L	101	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MSD	4014648	SWWW0109-061021	MSD	INITIAL	AsTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:42	EPA 200.8	0.0043	0.1	0.1	0.00014	0.0005	mg/L	100	2	70	130	20
10565256	757553_10565256	4040363LCSD_10565256	4040363	4039935LCS_10565256	LCSD	INITIAL	AsTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:50	EPA 200.8	0	0.1	0.11	0.000083	0.0005	mg/L	107	2	85	115	20
10565256	757553_10565256	4039934BLANK_10565256	4039934		MB	INITIAL	AsTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:44	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10565256	757553_10565256	4039935LCS_10565256	4039935		LCS	INITIAL	AsTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:47	EPA 200.8	0	0.1	0.11	0.000083	0.0005	mg/L	109	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	CaDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	2	2.1	0.015	0.04	mg/L	104	0	85	115	0
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	CaDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	CaDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	162	2	163	0.015	0.04	mg/L	81	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	CaDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	CaDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	2	2.1	0.015	0.04	mg/L	107	0	85	115	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	CaDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	25.3	2	31.1	0.015	0.04	mg/L	293	2	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	REANALYSIS	CaDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-02 11:38	EPA 200.8	25.3	2	31.6	0.015	0.04	mg/L	318	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	CaDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	28.8	2	31.5	0.015	0.04	mg/L	134	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	CaDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	28.8	2	32.3	0.015	0.04	mg/L	174	3	70	130	20
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	CaDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	26.7	2	30	0.076	0.2	mg/L	165	0	70	130	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	CaDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	2	1.9	0.015	0.04	mg/L	94	0	85	115	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	CaDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	CaDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	26.7	2	28	0.076	0.2	mg/L	66	7	70	130	20
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	CaDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	263	2	283	0.076	0.2	mg/L	967	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	CaDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	278	2	272	0.091	0.2	mg/L	0	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	CaDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	278	2	305	0.091	0.2	mg/L	1350	11	70	130	20
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	CaDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	2	2	0.018	0.04	mg/L	99	0	85	115	0
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	CaDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	CdDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	104	0	85	115	0
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	CdDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	CdDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	0.00006	0.1	0.1	0.00003	0.00008	mg/L	103	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	CdDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	CdDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	0.1	0.11	0.00003	0.00008	mg/L	108	0	85	115	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	CdDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	0.000023	0.1	0.11	0.00003	0.00008	mg/L	106	2	70	130	20
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	CdDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	0.000031	0.1	0.11	0.00003	0.00008	mg/L	106	5	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	CdDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	0.000023	0.1	0.1	0.00003	0.00008	mg/L	103	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	CdDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	0.000031	0.1	0.1	0.00003	0.00008	mg/L	101	0	70	130	0
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	CdDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	0.000037	0.1	0.094	0.00015	0.0004	mg/L	94	0	70	130	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	CdDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	CdDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	0.1	0.094	0.00003	0.00008	mg/L	94	0	85	115	0
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	CdDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	0.000032	0.1	0.1	0.00015	0.0004	mg/L	102	0	70	130	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	CdDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	0.000037	0.1	0.094	0.00015	0.0004	mg/L	94	0	70	130	20
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	CdDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	0.00005	0.1	0.1	0.00008	0.0004	mg/L	102	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	CdDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	0.00005	0.1	0.11	0.00008	0.0004	mg/L	107	4	70	130	20
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	CdDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	102	0	85	115	0
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	CdDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10565256	750657_10565256	4003824BLANK_10565256	4003824		MB	INITIAL	CdTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:16	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10565256	750657_10565256	4003825LCS_10565256	4003825		LCS	INITIAL	CdTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:26	EPA 200.8	0	0.1	0.11	0.00003	0.00008	mg/L	108	0	85	115	0
10565256	750657_10565256	SWWW0127-061021MS	4003828	SWWW0127-061021	MS	INITIAL	CdTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 11:59	EPA 200.8	0.000082	0.1	0.11	0.00003	0.00008	mg/L	106	0	70	130	0
10565256	751106_10565256	4005791BLANK_10565256	4005791		MB	INITIAL	CdTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:18	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10565256	751106_10565256	4005792LCS_10565256	4005792		LCS	INITIAL	CdTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:21	EPA 200.8	0	0.1	0.11	0.00003	0.00008	mg/L	105	0	85	115	0
10565256	751106_10565256	SWWW0107-061021MSD	4005796	SWWW0107-061021	MSD	INITIAL	CdTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:52	EPA 200.8	0.000029	0.1	0.1	0.00003	0.00008	mg/L	100	0	70	130	20
10565256	751106_10565256	SWWW0089-061021MS	4005793	SWWW0089-061021	MS	INITIAL	CdTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:33	EPA 200.8	0.000037	0.1	0.1	0.00003	0.00008	mg/L	101	0	70	130	0
10565256	751106_10565256	SWWW0089-061021MSD	4005794	SWWW0089-061021	MSD	INITIAL	CdTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:36	EPA 200.8	0.000037	0.1	0.097	0.00003	0.00008	mg/L	97	4	70	130	20
10565256	751106_10565256	SWWW0107-061021MS	4005795	SWWW0107-061021	MS	INITIAL	CdTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:49	EPA 200.8	0.000029	0.1	0.1	0.00003	0.00008	mg/L	100	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MS	4014647	SWWW0109-061021	MS	INITIAL	CdTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:39	EPA 200.8	0.000074	0.1	0.11	0.00003	0.00008	mg/L	106	0	70	130	0
10565256	752887_10565256	4014645BLANK_10565256	4014645		MB	INITIAL	CdTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:23	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10565256	752887_10565256	4014646LCS_10565256	4014646		LCS	INITIAL	CdTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:26	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	101	0	85	115	0
10565256	752887_10565256	SWWW0120-061021MS	4014649	SWWW0120-061021	MS	INITIAL	CdTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 08:29	EPA 200.8	0.000017	0.1	0.1	0.00003	0.00008	mg/L	101	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MSD	4014648	SWWW0109-061021	MSD	INITIAL	CdTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:42	EPA 200.8	0.000074	0.1	0.1	0.00003	0.00008	mg/L	102	3	70	130	20
10565256	757553_10565256	4039935LCS_10565256	4039935		LCS	INITIAL	CdTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:47	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	106	0	85	115	0
10565256	757553_10565256	4039934BLANK_10565256	4039934		MB	INITIAL	CdTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:44	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	757553_10565256	4040363LCSD_10565256	4040363	4039935LCS_10565256	LCSD	INITIAL	CdTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:50	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	105	1	85	115	20
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	CuDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	CuDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	105	0	85	115	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	CuDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	0.0044	0.1	0.11	0.00043	0.001	mg/L	103	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	CuDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	CuDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	0.1	0.11	0.00043	0.001	mg/L	109	0	85	115	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	CuDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	0.0065	0.1	0.11	0.00043	0.001	mg/L	108	3	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	CuDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	0.0065	0.1	0.11	0.00043	0.001	mg/L	105	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	CuDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	0.0054	0.1	0.11	0.00043	0.001	mg/L	105	2	70	130	20
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	CuDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	0.0054	0.1	0.11	0.00043	0.001	mg/L	103	0	70	130	0
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	CuDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	0.0071	0.1	0.11	0.0021	0.005	mg/L	101	0	70	130	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	CuDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	CuDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	0.1	0.097	0.00043	0.001	mg/L	97	0	85	115	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	CuDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	0.0071	0.1	0.11	0.0021	0.005	mg/L	99	2	70	130	20
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	CuDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	0.0039	0.1	0.11	0.0021	0.005	mg/L	105	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	REANALYSIS	CuDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-22 01:32	EPA 200.8	0.0058	0.1	0.11	0.0025	0.005	mg/L	106	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	REANALYSIS	CuDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-22 01:35	EPA 200.8	0.0058	0.1	0.12	0.0025	0.005	mg/L	111	4	70	130	20
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	REANALYSIS	CuDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-22 01:18	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	105	0	85	115	0
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	CuDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10565256	750657_10565256	4003825LCS_10565256	4003825		LCS	INITIAL	CuTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:26	EPA 200.8	0	0.1	0.11	0.00043	0.001	mg/L	109	0	85	115	0
10565256	750657_10565256	4003824BLANK_10565256	4003824		MB	INITIAL	CuTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:16	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10565256	750657_10565256	SWWW0127-061021MS	4003828	SWWW0127-061021	MS	INITIAL	CuTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 11:59	EPA 200.8	0.012	0.1	0.13	0.00043	0.001	mg/L	115	0	70	130	0
10565256	751106_10565256	4005791BLANK_10565256	4005791		MB	INITIAL	CuTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:18	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10565256	751106_10565256	4005792LCS_10565256	4005792		LCS	INITIAL	CuTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:21	EPA 200.8	0	0.1	0.11	0.00043	0.001	mg/L	107	0	85	115	0
10565256	751106_10565256	SWWW0107-061021MS	4005795	SWWW0107-061021	MS	INITIAL	CuTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:49	EPA 200.8	0.009	0.1	0.11	0.00043	0.001	mg/L	101	0	70	130	0
10565256	751106_10565256	SWWW0107-061021MSD	4005796	SWWW0107-061021	MSD	INITIAL	CuTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:52	EPA 200.8	0.009	0.1	0.11	0.00043	0.001	mg/L	100	1	70	130	20
10565256	751106_10565256	SWWW0089-061021MS	4005793	SWWW0089-061021	MS	INITIAL	CuTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:33	EPA 200.8	0.01	0.1	0.11	0.00043	0.001	mg/L	101	0	70	130	0
10565256	751106_10565256	SWWW0089-061021MSD	4005794	SWWW0089-061021	MSD	INITIAL	CuTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:36	EPA 200.8	0.01	0.1	0.11	0.00043	0.001	mg/L	96	4	70	130	20
10565256	752887_10565256	SWWW0109-061021MS	4014647	SWWW0109-061021	MS	INITIAL	CuTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:39	EPA 200.8	0.017	0.1	0.12	0.00043	0.001	mg/L	105	0	70	130	0
10565256	752887_10565256	4014646LCS_10565256	4014646		LCS	INITIAL	CuTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:26	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	103	0	85	115	0
10565256	752887_10565256	4014645BLANK_10565256	4014645		MB	INITIAL	CuTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:23	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10565256	752887_10565256	SWWW0120-061021MS	4014649	SWWW0120-061021	MS	INITIAL	CuTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 08:29	EPA 200.8	0.0038	0.1	0.1	0.00043	0.001	mg/L	101	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MSD	4014648	SWWW0109-061021	MSD	INITIAL	CuTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:42	EPA 200.8	0.017	0.1	0.12	0.00043	0.001	mg/L	101	3	70	130	20
10565256	757553_10565256	4039934BLANK_10565256	4039934		MB	INITIAL	CuTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:44	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10565256	757553_10565256	4039935LCS_10565256	4039935		LCS	INITIAL	CuTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:47	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	114	0	85	115	0
10565256	757553_10565256	4040363LCSD_10565256	4040363	4039935LCS_10565256	LCSD	INITIAL	CuTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:50	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	110	4	85	115	20
10565256	727575_10565256	2923029BLANK_10565256	2923029		MB	INITIAL	DOC	D	1	2021-06-21 11:18	METHOD	2021-06-21 11:18	SM 5310C	0	0	0.3	0.3	1	mg/L	0	0	0	0	0
10565256	727575_10565256	2923030LCS_10565256	2923030		LCS	INITIAL	DOC	D	1	2021-06-21 11:32	METHOD	2021-06-21 11:32	SM 5310C	0	5	5.2	0.3	1	mg/L	104	0	80	120	0
10565256	727576_10565256	2923033BLANK_10565256	2923033		MB	INITIAL	DOC	D	1	2021-06-21 05:29	METHOD	2021-06-21 05:29	SM 5310C	0	0	0.3	0.3	1	mg/L	0	0	0	0	0
10565256	727576_10565256	2923034LCS_10565256	2923034		LCS	INITIAL	DOC	D	1	2021-06-21 05:43	METHOD	2021-06-21 05:43	SM 5310C	0	5	5.3	0.3	1	mg/L	105	0	80	120	0
10565256	727576_10565256	SWWW0089-061021DUP	2923038	SWWW0089-061021	LR	INITIAL	DOC	D	1	2021-06-21 08:22	METHOD	2021-06-21 08:22	SM 5310C	4.7	0	4.5	0.3	1	mg/L	0	3	0	0	25
10565256	727576_10565256	SWWW0107-061021MSD	2923037	SWWW0107-061021	MSD	INITIAL	DOC	D	1	2021-06-21 07:56	METHOD	2021-06-21 07:56	SM 5310C	6.5	5	11.4	0.3	1	mg/L	98	2	80	120	25
10565256	727576_10565256	SWWW0107-061021MS	2923036	SWWW0107-061021	MS	INITIAL	DOC	D	1	2021-06-21 07:42	METHOD	2021-06-21 07:42	SM 5310C	6.5	5	11.2	0.3	1	mg/L	95	0	80	120	0
10565256	727576_10565256	SWWW0089-061021MS	2923039	SWWW0089-061021	MS	INITIAL	DOC	D	1	2021-06-21 08:35	METHOD	2021-06-21 08:35	SM 5310C	4.7	5	9.5	0.3	1	mg/L	97	0	80	120	0
10565256	727576_10565256	SWWW0107-061021DUP	2923035	SWWW0107-061021	LR	INITIAL	DOC	D	1	2021-06-21 07:29	METHOD	2021-06-21 07:29	SM 5310C	6.5	0	6.5	0.3	1	mg/L	0	1	0	0	25
10565256	727576_10565256	SWWW0089-061021MSD	2923040	SWWW0089-061021	MSD	INITIAL	DOC	D	1	2021-06-21 08:49	METHOD	2021-06-21 08:49	SM 5310C	4.7	5	9.9	0.3	1	mg/L	104	4	80	120	25
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	FeDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	2	2	0.012	0.05	mg/L	102	0	85	115	0
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	FeDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	FeDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	0.019	2	2	0.012	0.05	mg/L	101	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	FeDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	FeDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	0.053	2	2.2	0.012	0.05	mg/L	109	4	70	130	20
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	FeDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	0.053	2	2.1	0.012	0.05	mg/L	104	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	FeDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	0.055	2	2.2	0.012	0.05	mg/L	109	3	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	FeDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	0.055	2	2.2	0.012	0.05	mg/L	106	0	70	130	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	FeDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	111	0	85	115	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	FeDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	FeDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	2	2	0.012	0.05	mg/L	100	0	85	115	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	FeDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	0.034	2	2.1	0.06	0.25	mg/L	104	1	70	130	20
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	FeDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	0.034	2	2.1	0.06	0.25	mg/L	103	0	70	130	0
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	FeDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	0.13	2	2.3	0.06	0.25	mg/L	108	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	FeDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	0.17	2	2.2	0.06	0.25	mg/L	103	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	FeDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	0.17	2	2.4	0.06	0.25	mg/L	112	7	70	130	20
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	FeDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	2	2	0.012	0.05	mg/L	102	0	85	115	0
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	FeDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10565256	750657_10565256	4003825LCS_10565256	4003825		LCS	INITIAL	FeTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:26	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	107	0	85	115	0
10565256	750657_10565256	4003824BLANK_10565256	4003824		MB	INITIAL	FeTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:16	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10565256	750657_10565256	SWWW0127-061021MS	4003828	SWWW0127-061021	MS	INITIAL	FeTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 11:59	EPA 200.8	0.42	2	2.5	0.012	0.05	mg/L	106	0	70	130	0
10565256	751106_10565256	4005792LCS_10565256	4005792		LCS	INITIAL	FeTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:21	EPA 200.8	0	2	2.3	0.012	0.05	mg/L	113	0	85	115	0
10565256	751106_10565256	4005791BLANK_10565256	4005791		MB	INITIAL	FeTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:18	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10565256	751106_10565256	SWWW0107-061021MS	4005795	SWWW0107-061021	MS	INITIAL	FeTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:49	EPA 200.8	0.4	2	2.6	0.012	0.05	mg/L	109	0	70	130	0
10565256	751106_10565256	SWWW0107-061021MSD	4005796	SWWW0107-061021	MSD	INITIAL	FeTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:52	EPA 200.8	0.4	2	2.5	0.012	0.05	mg/L	107	2	70	130	20
10565256	751106_10565256	SWWW0089-061021MSD	4005794	SWWW0089-061021	MSD	INITIAL	FeTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:36	EPA 200.8	0.48	2	2.5	0.012	0.05	mg/L	100	7	70	130	20
10565256	751106_10565256	SWWW0089-061021MS	4005793	SWWW0089-061021	MS	INITIAL	FeTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:33	EPA 200.8	0.48	2	2.6	0.012	0.05	mg/L	109	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MS	4014647	SWWW0109-061021	MS	INITIAL	FeTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:39	EPA 200.8	0.93	2	3.1	0.012	0.05	mg/L	106	0	70	130	0
10565256	752887_10565256	4014645BLANK_10565256	4014645		MB	INITIAL	FeTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:23	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10565256	752887_10565256	4014646LCS_10565256	4014646		LCS	INITIAL	FeTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:26	EPA 200.8	0	2	2	0.012	0.05	mg/L	102	0	85	115	0
10565256	752887_10565256	SWWW0120-061021MS	4014649	SWWW0120-061021	MS	INITIAL	FeTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 08:29	EPA 200.8	0.13	2	2.2	0.012	0.05	mg/L	101	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MSD	4014648	SWWW0109-061021	MSD	INITIAL	FeTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:42	EPA 200.8	0.93	2	3	0.012	0.05	mg/L	103	2	70	130	20
10565256	757553_10565256	4039934BLANK_10565256	4039934		MB	INITIAL	FeTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:44	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10565256	757553_10565256	4040363LCSD_10565256	4040363	4039935LCS_10565256	LCSD	INITIAL	FeTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:50	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	106	4	85	115	20
10565256	757553_10565256	4039935LCS_10565256	4039935		LCS	INITIAL	FeTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:47	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	110	0	85	115	0
10565256	750485_10565256	SWWW0107-061021MSD	4002591	SWWW0107-061021	MSD	INITIAL	HgDis	D	1	2021-06-18 05:03	EPA 245.1	2021-06-22 02:06	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	105	2	70	130	20
10565256	750485_10565256	SWWW0107-061021MS	4002590	SWWW0107-061021	MS	INITIAL	HgDis	D	1	2021-06-18 05:03	EPA 245.1	2021-06-22 02:05	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10565256	750485_10565256	SWWW0089-061021MS	4002573	SWWW0089-061021	MS	INITIAL	HgDis	D	1	2021-06-18 05:03	EPA 245.1	2021-06-22 01:30	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	109	0	70	130	0
10565256	750485_10565256	SWWW0089-061021MSD	4002574	SWWW0089-061021	MSD	INITIAL	HgDis	D	1	2021-06-18 05:03	EPA 245.1	2021-06-22 01:31	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	99	10	70	130	20
10565256	750485_10565256	4002571BLANK_10565256	4002571		MB	INITIAL	HgDis	D	1	2021-06-18 05:03	EPA 245.1	2021-06-22 01:26	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10565256	750485_10565256	4002572LCS_10565256	4002572		LCS	INITIAL	HgDis	D	1	2021-06-18 05:03	EPA 245.1	2021-06-22 01:27	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	105	0	85	115	0
10565256	750527_10565256	4002902BLANK_10565256	4002902		MB	INITIAL	HgDis	D	1	2021-06-23 07:45	EPA 245.1	2021-06-24 12:38	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10565256	750527_10565256	4002903LCS_10565256	4002903		LCS	INITIAL	HgDis	D	1	2021-06-23 07:45	EPA 245.1	2021-06-24 12:39	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	95	0	85	115	0
10565256	750527_10565256	SWWW0111-061021MSD	4002905	SWWW0111-061021	MSD	INITIAL	HgDis	D	1	2021-06-23 07:45	EPA 245.1	2021-06-24 12:46	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	5	70	130	20
10565256	750527_10565256	SWWW0111-061021MS	4002904	SWWW0111-061021	MS	INITIAL	HgDis	D	1	2021-06-23 07:45	EPA 245.1	2021-06-24 12:45	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	98	0	70	130	0
10565256	750527_10565256	SWWW0123-061021MS	4002906	SWWW0123-061021	MS	INITIAL	HgDis	D	1	2021-06-23 07:45	EPA 245.1	2021-06-24 01:11	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	95	0	70	130	0
10565256	750529_10565256	4002915BLANK_10565256	4002915		MB	INITIAL	HgDis	D	1	2021-06-23 09:17	EPA 245.1	2021-06-24 02:11	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10565256	750529_10565256	4002916LCS_10565256	4002916		LCS	INITIAL	HgDis	D	1	2021-06-23 09:17	EPA 245.1	2021-06-24 02:12	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	85	115	0
10565256	750519_10565256	4002866BLANK_10565256	4002866		MB	INITIAL	HgTR	T	1	2021-06-23 07:45	EPA 245.1	2021-06-24 11:50	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10565256	750519_10565256	4002867LCS_10565256	4002867		LCS	INITIAL	HgTR	T	1	2021-06-23 07:45	EPA 245.1	2021-06-24 11:51	EPA 245.1	0	0.005	0.0058	0.000045	0.0002	mg/L	115	0	85	115	0
10565256	750519_10565256	SWWW0089-061021MSD	4002869	SWWW0089-061021	MSD	INITIAL	HgTR	T	1	2021-06-23 07:45	EPA 245.1	2021-06-24 11:56	EPA 245.1	0	0.005	0.0058	0.000045	0.0002	mg/L	115	0	70	130	20
10565256	750519_10565256	SWWW0089-061021MS	4002868	SWWW0089-061021	MS	INITIAL	HgTR	T	1	2021-06-23 07:45	EPA 245.1	2021-06-24 11:54	EPA 245.1	0	0.005	0.0058	0.000045	0.0002	mg/L	115	0	70	130	0
10565256	750519_10565256	SWWW0107-061021MS	4002870	SWWW0107-061021	MS	INITIAL	HgTR	T	1	2021-06-23 07:45	EPA 245.1	2021-06-24 12:29	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	108	0	70	130	0
10565256	750519_10565256	SWWW0107-061021MSD	4002871	SWWW0107-061021	MSD	INITIAL	HgTR	T	1	2021-06-23 07:45	EPA 245.1	2021-06-24 12:30	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	2	70	130	20
10565256	750523_10565256	4002883BLANK_10565256	4002883		MB	INITIAL	HgTR	T	1	2021-06-23 09:17	EPA 245.1	2021-06-24 01:24	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10565256	750523_10565256	4002884LCS_10565256	4002884		LCS	INITIAL	HgTR	T	1	2021-06-23 09:17	EPA 245.1	2021-06-24 01:26	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
10565256	750523_10565256	SWWW0122-061021MS	4002887	SWWW0122-061021	MS	INITIAL	HgTR	T	1	2021-06-23 09:17	EPA 245.1	2021-06-24 01:56	EPA 245.1	0.000029	0.005	0.0053	0.000045	0.0002	mg/L	105	0	70	130	0
10565256	750523_10565256	SWWW0111-061021MS	4002885	SWWW0111-061021	MS	INITIAL	HgTR	T	1	2021-06-23 09:17	EPA 245.1	2021-06-24 01:31	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	105	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	750523_10565256	SWWW0111-061021MSD	4002886	SWWW0111-061021	MSD	INITIAL	HgTR	T	1	2021-06-23 09:17	EPA 245.1	2021-06-24 01:33	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	6	70	130	20
10565256	750526_10565256	4002897BLANK_10565256	4002897		MB	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-24 03:37	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10565256	750526_10565256	4002898LCS_10565256	4002898		LCS	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-24 03:39	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	MgDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	MgDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	2	2	0.0039	0.01	mg/L	100	0	85	115	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	MgDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	8.8	2	10.9	0.0039	0.01	mg/L	102	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	MgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.004	0.0039	0.01	mg/L	0	0	0	0	0
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	MgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	8	2	10.1	0.0039	0.01	mg/L	102	0	70	130	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	MgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	8	2	9.6	0.0039	0.01	mg/L	77	5	70	130	20
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	MgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	7.7	2	10	0.0039	0.01	mg/L	114	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	MgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	7.7	2	10.1	0.0039	0.01	mg/L	121	1	70	130	20
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	MgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	2	2.2	0.0039	0.01	mg/L	108	0	85	115	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	MgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	2	2	0.0039	0.01	mg/L	99	0	85	115	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	MgDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	MgDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	7.1	2	9.6	0.019	0.05	mg/L	124	0	70	130	0
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	MgDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	7.3	2	10.8	0.019	0.05	mg/L	172	0	70	130	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	MgDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	7.1	2	9.2	0.019	0.05	mg/L	101	5	70	130	20
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	MgDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	7.2	2	10.2	0.017	0.05	mg/L	152	8	70	130	20
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	MgDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	7.2	2	9.4	0.017	0.05	mg/L	112	0	70	130	0
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	MgDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	2	2.1	0.0034	0.01	mg/L	103	0	85	115	0
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	MgDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.0034	0.0034	0.01	mg/L	0	0	0	0	0
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	MoDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	105	0	85	115	0
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	MoDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	MoDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	0.25	0.1	0.37	0.000081	0.0005	mg/L	114	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	MoDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	MoDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	0.1	0.11	0.000081	0.0005	mg/L	107	0	85	115	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	MoDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	0.0046	0.1	0.11	0.000081	0.0005	mg/L	106	2	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	MoDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	0.0046	0.1	0.11	0.000081	0.0005	mg/L	105	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	MoDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	0.0048	0.1	0.11	0.000081	0.0005	mg/L	107	1	70	130	20
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	MoDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	0.0048	0.1	0.11	0.000081	0.0005	mg/L	107	0	70	130	0
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	MoDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	0.0042	0.1	0.098	0.0004	0.0025	mg/L	94	0	70	130	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	MoDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	MoDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	0.1	0.096	0.000081	0.0005	mg/L	96	0	85	115	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	MoDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	0.0042	0.1	0.1	0.0004	0.0025	mg/L	99	5	70	130	20
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	MoDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	0.41	0.1	0.53	0.0004	0.0025	mg/L	124	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	MoDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	0.43	0.1	0.6	0.00047	0.0025	mg/L	169	12	70	130	20
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	MoDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	0.43	0.1	0.53	0.00047	0.0025	mg/L	104	0	70	130	0
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	MoDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	MoDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	101	0	85	115	0
10565256	750657_10565256	4003824BLANK_10565256	4003824		MB	INITIAL	MoTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:16	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10565256	750657_10565256	4003825LCS_10565256	4003825		LCS	INITIAL	MoTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:26	EPA 200.8	0	0.1	0.11	0.000081	0.0005	mg/L	105	0	85	115	0
10565256	750657_10565256	SWWW0127-061021MS	4003828	SWWW0127-061021	MS	INITIAL	MoTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 11:59	EPA 200.8	0.25	0.1	0.36	0.000081	0.0005	mg/L	113	0	70	130	0
10565256	751106_10565256	4005791BLANK_10565256	4005791		MB	INITIAL	MoTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:18	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10565256	751106_10565256	4005792LCS_10565256	4005792		LCS	INITIAL	MoTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:21	EPA 200.8	0	0.1	0.11	0.000081	0.0005	mg/L	111	0	85	115	0
10565256	751106_10565256	SWWW0107-061021MS	4005795	SWWW0107-061021	MS	INITIAL	MoTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:49	EPA 200.8	0.0048	0.1	0.11	0.000081	0.0005	mg/L	110	0	70	130	0
10565256	751106_10565256	SWWW0107-061021MSD	4005796	SWWW0107-061021	MSD	INITIAL	MoTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:52	EPA 200.8	0.0048	0.1	0.11	0.000081	0.0005	mg/L	108	2	70	130	20
10565256	751106_10565256	SWWW0089-061021MS	4005793	SWWW0089-061021	MS	INITIAL	MoTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:33	EPA 200.8	0.0049	0.1	0.11	0.000081	0.0005	mg/L	107	0	70	130	0
10565256	751106_10565256	SWWW0089-061021MSD	4005794	SWWW0089-061021	MSD	INITIAL	MoTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:36	EPA 200.8	0.0049	0.1	0.11	0.000081	0.0005	mg/L	103	3	70	130	20
10565256	752887_10565256	SWWW0109-061021MS	4014647	SWWW0109-061021	MS	INITIAL	MoTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:39	EPA 200.8	0.0046	0.1	0.11	0.000081	0.0005	mg/L	107	0	70	130	0
10565256	752887_10565256	4014645BLANK_10565256	4014645		MB	INITIAL	MoTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:23	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10565256	752887_10565256	4014646LCS_10565256	4014646		LCS	INITIAL	MoTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:26	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	101	0	85	115	0
10565256	752887_10565256	SWWW0120-061021MS	4014649	SWWW0120-061021	MS	INITIAL	MoTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 08:29	EPA 200.8	0.42	0.1	0.53	0.000081	0.0005	mg/L	106	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	752887_10565256	SWWW0109-061021MSD	4014648	SWWW0109-061021	MSD	INITIAL	MoTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:42	EPA 200.8	0.0046	0.1	0.11	0.000081	0.0005	mg/L	104	3	70	130	20
10565256	757553_10565256	4039934BLANK_10565256	4039934		MB	INITIAL	MoTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:44	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10565256	757553_10565256	4039935LCS_10565256	4039935		LCS	INITIAL	MoTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:47	EPA 200.8	0	0.1	0.11	0.000094	0.0005	mg/L	106	0	85	115	0
10565256	757553_10565256	4040363LCSD_10565256	4040363	4039935LCS_10565256	LCSD	INITIAL	MoTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:50	EPA 200.8	0	0.1	0.11	0.000094	0.0005	mg/L	105	0	85	115	20
10565256	751456_10565256	4007284BLANK_10565256	4007284		MB	INITIAL	NH3-N	T	1	2021-06-23 12:02	METHOD	2021-06-23 12:02	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10565256	751456_10565256	4007285LCS_10565256	4007285		LCS	INITIAL	NH3-N	T	1	2021-06-23 12:03	METHOD	2021-06-23 12:03	EPA 350.1	0	2.5	2.5	0.03	0.1	mg/L	101	0	90	110	0
10565256	751456_10565256	SWWW0089-061021MSD	4007289	SWWW0089-061021	MSD	INITIAL	NH3-N	T	1	2021-06-23 12:26	METHOD	2021-06-23 12:26	EPA 350.1	0.038	2.5	2.6	0.03	0.1	mg/L	104	5	90	110	20
10565256	751456_10565256	SWWW0089-061021MS	4007288	SWWW0089-061021	MS	INITIAL	NH3-N	T	1	2021-06-23 12:25	METHOD	2021-06-23 12:25	EPA 350.1	0.038	2.5	2.5	0.03	0.1	mg/L	98	0	90	110	0
10565256	751457_10565256	SWWW0107-061021MSD	4007300	SWWW0107-061021	MSD	INITIAL	NH3-N	T	1	2021-06-23 01:06	METHOD	2021-06-23 01:06	EPA 350.1	0	2.5	2.6	0.03	0.1	mg/L	105	2	90	110	20
10565256	751457_10565256	SWWW0107-061021MS	4007299	SWWW0107-061021	MS	INITIAL	NH3-N	T	1	2021-06-23 01:05	METHOD	2021-06-23 01:05	EPA 350.1	0	2.5	2.6	0.03	0.1	mg/L	103	0	90	110	0
10565256	751457_10565256	4007297BLANK_10565256	4007297		MB	INITIAL	NH3-N	T	1	2021-06-23 12:53	METHOD	2021-06-23 12:53	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10565256	751457_10565256	4007298LCS_10565256	4007298		LCS	INITIAL	NH3-N	T	1	2021-06-23 12:46	METHOD	2021-06-23 12:46	EPA 350.1	0	2.5	2.5	0.03	0.1	mg/L	101	0	90	110	0
10565256	749645_10565256	SWWW0089-061021MS	3998442	SWWW0089-061021	MS	INITIAL	NO3/NO2-N	T	1	2021-06-16 01:42	METHOD	2021-06-16 01:42	SM 4500-NO3-H	0.98	2.5	3.7	0.078	0.2	mg/L	107	0	80	120	0
10565256	749645_10565256	SWWW0089-061021MSD	3998443	SWWW0089-061021	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-16 01:43	METHOD	2021-06-16 01:43	SM 4500-NO3-H	0.98	2.5	3.5	0.078	0.2	mg/L	102	3	80	120	20
10565256	749645_10565256	3998438BLANK_10565256	3998438		MB	INITIAL	NO3/NO2-N	T	1	2021-06-16 01:25	METHOD	2021-06-16 01:25	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10565256	749645_10565256	3998439LCS_10565256	3998439		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-16 01:26	METHOD	2021-06-16 01:26	SM 4500-NO3-H	0	2.5	2.5	0.078	0.2	mg/L	100	0	90	110	0
10565256	749646_10565256	3998444BLANK_10565256	3998444		MB	INITIAL	NO3/NO2-N	T	1	2021-06-16 01:56	METHOD	2021-06-16 01:56	SM 4500-NO3-H	0	0	0.091	0.078	0.2	mg/L	0	0	0	0	0
10565256	749646_10565256	3998445LCS_10565256	3998445		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:00	METHOD	2021-06-16 02:00	SM 4500-NO3-H	0	2.5	2.4	0.078	0.2	mg/L	97	0	90	110	0
10565256	749646_10565256	SWWW0099-061021MSD	3998447	SWWW0099-061021	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:01	METHOD	2021-06-16 02:01	SM 4500-NO3-H	0.88	2.5	3.4	0.078	0.2	mg/L	101	13	80	120	20
10565256	749646_10565256	SWWW0099-061021MS	3998446	SWWW0099-061021	MS	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:01	METHOD	2021-06-16 02:01	SM 4500-NO3-H	0.88	2.5	3	0.078	0.2	mg/L	85	0	80	120	0
10565256	749646_10565256	SWWW0107-061021MS	3998448	SWWW0107-061021	MS	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:12	METHOD	2021-06-16 02:12	SM 4500-NO3-H	0.97	2.5	3.7	0.078	0.2	mg/L	107	0	80	120	0
10565256	749646_10565256	SWWW0107-061021MSD	3998449	SWWW0107-061021	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:14	METHOD	2021-06-16 02:14	SM 4500-NO3-H	0.97	2.5	3.6	0.078	0.2	mg/L	105	2	80	120	20
10565256	749647_10565256	3998451BLANK_10565256	3998451		MB	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:26	METHOD	2021-06-16 02:26	SM 4500-NO3-H	0	0	0.09	0.078	0.2	mg/L	0	0	0	0	0
10565256	749647_10565256	3998452LCS_10565256	3998452		LCS	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:27	METHOD	2021-06-16 02:27	SM 4500-NO3-H	0	2.5	2.5	0.078	0.2	mg/L	100	0	90	110	0
10565256	749647_10565256	SWWW0120-061021MS	3998455	SWWW0120-061021	MS	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:34	METHOD	2021-06-16 02:34	SM 4500-NO3-H	0.9	2.5	3.3	0.078	0.2	mg/L	98	0	80	120	0
10565256	749647_10565256	SWWW0120-061021MSD	3998456	SWWW0120-061021	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:34	METHOD	2021-06-16 02:34	SM 4500-NO3-H	0.9	2.5	3.4	0.078	0.2	mg/L	100	2	80	120	20
10565256	749647_10565256	SWWW0119-061021MSD	3998454	SWWW0119-061021	MSD	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:30	METHOD	2021-06-16 02:30	SM 4500-NO3-H	0.88	2.5	3.4	0.078	0.2	mg/L	101	2	80	120	20
10565256	749647_10565256	SWWW0119-061021MS	3998453	SWWW0119-061021	MS	INITIAL	NO3/NO2-N	T	1	2021-06-16 02:28	METHOD	2021-06-16 02:28	SM 4500-NO3-H	0.88	2.5	3.5	0.078	0.2	mg/L	104	0	80	120	0
10565256	752241_10565256	SWWW0089-061021MSD	4012057	SWWW0089-061021	MSD	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 11:53	SM 4500-P-F	0.11	2.5	2.7	0.05	0.1	mg/L	102	5	80	120	20
10565256	752241_10565256	SWWW0089-061021MS	4012056	SWWW0089-061021	MS	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 11:52	SM 4500-P-F	0.11	2.5	2.5	0.05	0.1	mg/L	97	0	80	120	0
10565256	752241_10565256	4012052BLANK_10565256	4012052		MB	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 11:28	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10565256	752241_10565256	4012053LCS_10565256	4012053		LCS	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 11:29	SM 4500-P-F	0	2.5	2.5	0.05	0.1	mg/L	98	0	90	110	0
10565256	752242_10565256	4012061BLANK_10565256	4012061		MB	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 11:56	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10565256	752242_10565256	4012062LCS_10565256	4012062		LCS	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 11:57	SM 4500-P-F	0	2.5	2.5	0.05	0.1	mg/L	99	0	90	110	0
10565256	752242_10565256	SWWW0092-061021MS	4012063	SWWW0092-061021	MS	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 11:59	SM 4500-P-F	0.27	2.5	2.8	0.05	0.1	mg/L	101	0	80	120	0
10565256	752242_10565256	SWWW0092-061021MSD	4012064	SWWW0092-061021	MSD	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 12:02	SM 4500-P-F	0.27	2.5	2.7	0.05	0.1	mg/L	98	3	80	120	20
10565256	752242_10565256	SWWW0107-061021MSD	4012066	SWWW0107-061021	MSD	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 12:19	SM 4500-P-F	0.1	2.5	2.8	0.05	0.1	mg/L	107	6	80	120	20
10565256	752242_10565256	SWWW0107-061021MS	4012065	SWWW0107-061021	MS	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-28 12:18	SM 4500-P-F	0.1	2.5	2.6	0.05	0.1	mg/L	100	0	80	120	0
10565256	752243_10565256	4012071BLANK_10565256	4012071		MB	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-29 12:00	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10565256	752243_10565256	4012072LCS_10565256	4012072		LCS	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-29 12:01	SM 4500-P-F	0	2.5	2.5	0.05	0.1	mg/L	99	0	90	110	0
10565256	752243_10565256	SWWW0128-061021MSD	4012074	SWWW0128-061021	MSD	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-29 12:04	SM 4500-P-F	0.12	2.5	2.6	0.05	0.1	mg/L	99	3	80	120	20
10565256	752243_10565256	SWWW0128-061021MS	4012073	SWWW0128-061021	MS	INITIAL	P	T	1	2021-06-27 10:54	SM4500-P-B	2021-06-29 12:03	SM 4500-P-F	0.12	2.5	2.5	0.05	0.1	mg/L	96	0	80	120	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	PbDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	0.00022	0.1	0.1	0.000043	0.0001	mg/L	101	0	70	130	0
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	PbDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	PbDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	103	0	85	115	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	PbDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	PbDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	0.1	0.11	0.000043	0.0001	mg/L	111	0	85	115	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	PbDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	0.00011	0.1	0.11	0.000043	0.0001	mg/L	109	1	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	PbDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	0.00011	0.1	0.11	0.000043	0.0001	mg/L	108	0	70	130	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	PbDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	0.00012	0.1	0.1	0.000043	0.0001	mg/L	104	3	70	130	20
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	PbDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	0.00012	0.1	0.1	0.000043	0.0001	mg/L	101	0	70	130	0
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	PbDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	0.00011	0.1	0.094	0.00022	0.0005	mg/L	94	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	PbDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	0.00011	0.1	0.096	0.00022	0.0005	mg/L	96	2	70	130	20
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	PbDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	0.1	0.095	0.000043	0.0001	mg/L	95	0	85	115	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	PbDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	PbDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	0.00022	0.1	0.1	0.00022	0.0005	mg/L	103	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	PbDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	0.0021	0.1	0.1	0.00014	0.0005	mg/L	101	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	PbDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	0.0021	0.1	0.11	0.00014	0.0005	mg/L	107	6	70	130	20
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	PbDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	105	0	85	115	0
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	PbDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10565256	750657_10565256	4003824BLANK_10565256	4003824		MB	INITIAL	PbTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:16	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10565256	750657_10565256	4003825LCS_10565256	4003825		LCS	INITIAL	PbTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:26	EPA 200.8	0	0.1	0.11	0.000043	0.0001	mg/L	108	0	85	115	0
10565256	750657_10565256	SWWW0127-061021MS	4003828	SWWW0127-061021	MS	INITIAL	PbTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 11:59	EPA 200.8	0.0035	0.1	0.11	0.000043	0.0001	mg/L	106	0	70	130	0
10565256	751106_10565256	4005791BLANK_10565256	4005791		MB	INITIAL	PbTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:18	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10565256	751106_10565256	4005792LCS_10565256	4005792		LCS	INITIAL	PbTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:21	EPA 200.8	0	0.1	0.11	0.000043	0.0001	mg/L	111	0	85	115	0
10565256	751106_10565256	SWWW0107-061021MSD	4005796	SWWW0107-061021	MSD	INITIAL	PbTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:52	EPA 200.8	0.001	0.1	0.11	0.000043	0.0001	mg/L	107	0	70	130	20
10565256	751106_10565256	SWWW0089-061021MS	4005793	SWWW0089-061021	MS	INITIAL	PbTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:33	EPA 200.8	0.0012	0.1	0.11	0.000043	0.0001	mg/L	107	0	70	130	0
10565256	751106_10565256	SWWW0089-061021MSD	4005794	SWWW0089-061021	MSD	INITIAL	PbTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:36	EPA 200.8	0.0012	0.1	0.1	0.000043	0.0001	mg/L	103	4	70	130	20
10565256	751106_10565256	SWWW0107-061021MS	4005795	SWWW0107-061021	MS	INITIAL	PbTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:49	EPA 200.8	0.001	0.1	0.11	0.000043	0.0001	mg/L	107	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MS	4014647	SWWW0109-061021	MS	INITIAL	PbTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:39	EPA 200.8	0.0033	0.1	0.11	0.000043	0.0001	mg/L	106	0	70	130	0
10565256	752887_10565256	4014645BLANK_10565256	4014645		MB	INITIAL	PbTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:23	EPA 200.8	0	0	0.000054	0.000043	0.0001	mg/L	0	0	0	0	0
10565256	752887_10565256	4014646LCS_10565256	4014646		LCS	INITIAL	PbTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:26	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	102	0	85	115	0
10565256	752887_10565256	SWWW0120-061021MS	4014649	SWWW0120-061021	MS	INITIAL	PbTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 08:29	EPA 200.8	0.00088	0.1	0.1	0.000043	0.0001	mg/L	101	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MSD	4014648	SWWW0109-061021	MSD	INITIAL	PbTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:42	EPA 200.8	0.0033	0.1	0.1	0.000043	0.0001	mg/L	101	4	70	130	20
10565256	757553_10565256	4040363LCSD_10565256	4040363	4039935LCS_10565256	LCSD	INITIAL	PbTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:50	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	107	0	85	115	20
10565256	757553_10565256	4039935LCS_10565256	4039935		LCS	INITIAL	PbTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:47	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	108	0	85	115	0
10565256	757553_10565256	4039934BLANK_10565256	4039934		MB	INITIAL	PbTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:44	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10565256	751764_10565256	SWWW0089-061021MS	4008765	SWWW0089-061021	MS	INITIAL	SO4	T	5	2021-06-24 01:27	METHOD	2021-06-24 01:27	ASTM D516-90-02	27.4	100	119	6	12.5	mg/L	92	0	80	120	0
10565256	751764_10565256	4008760BLANK_10565256	4008760		MB	INITIAL	SO4	T	1	2021-06-24 01:23	METHOD	2021-06-24 01:23	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10565256	751764_10565256	4008761LCS_10565256	4008761		LCS	INITIAL	SO4	T	1	2021-06-24 01:23	METHOD	2021-06-24 01:23	ASTM D516-90-02	0	20	18.4	1.2	2.5	mg/L	92	0	80	120	0
10565256	751764_10565256	4008762LCSD_10565256	4008762	4008761LCS_10565256	LCSD	INITIAL	SO4	T	1	2021-06-24 01:24	METHOD	2021-06-24 01:24	ASTM D516-90-02	0	20	18.6	1.2	2.5	mg/L	93	1	80	120	20
10565256	751764_10565256	SWWW0089-061021MSD	4008766	SWWW0089-061021	MSD	INITIAL	SO4	T	5	2021-06-24 01:28	METHOD	2021-06-24 01:28	ASTM D516-90-02	27.4	100	127	6	12.5	mg/L	100	7	80	120	30
10565256	751851_10565256	SWWW0107-061021MS	4009506	SWWW0107-061021	MS	INITIAL	SO4	T	2	2021-06-24 05:29	METHOD	2021-06-24 05:29	ASTM D516-90-02	27.8	40	64.2	2.4	5	mg/L	91	0	80	120	0
10565256	751851_10565256	SWWW0108-061021MS	4009508	SWWW0108-061021	MS	INITIAL	SO4	T	2	2021-06-24 05:30	METHOD	2021-06-24 05:30	ASTM D516-90-02	25.9	40	71.3	2.4	5	mg/L	114	0	80	120	0
10565256	751851_10565256	SWWW0108-061021MSD	4009509	SWWW0108-061021	MSD	INITIAL	SO4	T	2	2021-06-24 05:30	METHOD	2021-06-24 05:30	ASTM D516-90-02	25.9	40	69	2.4	5	mg/L	108	3	80	120	30
10565256	751851_10565256	SWWW0107-061021MSD	4009507	SWWW0107-061021	MSD	INITIAL	SO4	T	2	2021-06-24 05:29	METHOD	2021-06-24 05:29	ASTM D516-90-02	27.8	40	66.5	2.4	5	mg/L	97	3	80	120	30
10565256	751851_10565256	4009503BLANK_10565256	4009503		MB	INITIAL	SO4	T	1	2021-06-24 03:25	METHOD	2021-06-24 03:25	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10565256	751851_10565256	4009504LCS_10565256	4009504		LCS	INITIAL	SO4	T	1	2021-06-24 03:25	METHOD	2021-06-24 03:25	ASTM D516-90-02	0	20	18.7	1.2	2.5	mg/L	94	0	80	120	0
10565256	751851_10565256	4009505LCSD_10565256	4009505	4009504LCS_10565256	LCSD	INITIAL	SO4	T	1	2021-06-24 03:26	METHOD	2021-06-24 03:26	ASTM D516-90-02	0	20	18.1	1.2	2.5	mg/L	91	3	80	120	20
10565256	751852_10565256	4009514BLANK_10565256	4009514		MB	INITIAL	SO4	T	1	2021-06-24 05:31	METHOD	2021-06-24 05:31	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10565256	751852_10565256	4009515LCS_10565256	4009515		LCS	INITIAL	SO4	T	1	2021-06-24 05:31	METHOD	2021-06-24 05:31	ASTM D516-90-02	0	20	18	1.2	2.5	mg/L	90	0	80	120	0
10565256	751852_10565256	4009516LCSD_10565256	4009516	4009515LCS_10565256	LCSD	INITIAL	SO4	T	1	2021-06-24 05:32	METHOD	2021-06-24 05:32	ASTM D516-90-02	0	20	17.2	1.2	2.5	mg/L	86	4	80	120	20
10565256	751852_10565256	SWWW0127-061021MS	4009517	SWWW0127-061021	MS	INITIAL	SO4	T	20	2021-06-24 06:27	METHOD	2021-06-24 06:27	ASTM D516-90-02	400	40	547	24.2	50	mg/L	366	0	80	120	0
10565256	751852_10565256	SWWW0127-061021MSD	4009518	SWWW0127-061021	MSD	INITIAL	SO4	T	20	2021-06-24 06:28	METHOD	2021-06-24 06:28	ASTM D516-90-02	400	40	553	24.2	50	mg/L	381	1	80	120	30
10565256	751852_10565256	SWWW0128-061021MS	4009519	SWWW0128-061021	MS	INITIAL	SO4	T	20	2021-06-24 06:29	METHOD	2021-06-24 06:29	ASTM D516-90-02	406	400	465	24.2	50	mg/L	15	0	80	120	0
10565256	751852_10565256	SWWW0128-061021MSD	4009520	SWWW0128-061021	MSD	INITIAL	SO4	T	20	2021-06-24 06:29	METHOD	2021-06-24 06:29	ASTM D516-90-02	406	20	394	24.2	50	mg/L	0	16	80	120	30
10565256	749936_10565256	SWWW0089-061021DUP	3999800	SWWW0089-061021	LR	INITIAL	TDS	D	1	2021-06-17 04:50	METHOD	2021-06-17 04:50	SM 2540C	125	0	141	5	10	mg/L	0	12	0	0	5
10565256	749936_10565256	SWWW0107-061021DUP	3999801	SWWW0107-061021	LR	INITIAL	TDS	D	1	2021-06-17 04:50	METHOD	2021-06-17 04:50	SM 2540C	157	0	152	5	10	mg/L	0	3	0	0	5
10565256	749936_10565256	3999798BLANK_10565256	3999798		MB	INITIAL	TDS	D	1	2021-06-17 04:50	METHOD	2021-06-17 04:50	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10565256	749936_10565256	3999799LCS_10565256	3999799		LCS	INITIAL	TDS	D	1	2021-06-17 04:50	METHOD	2021-06-17 04:50	SM 2540C	0	1000	1020	10	20	mg/L	102	0	80	120	0
10565256	749938_10565256	3999807BLANK_10565256	3999807		MB	INITIAL	TDS	D	1	2021-06-17 05:53	METHOD	2021-06-17 05:53	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10565256	749938_10565256	3999808LCS_10565256	3999808		LCS	INITIAL	TDS	D	1	2021-06-17 05:53	METHOD	2021-06-17 05:53	SM 2540C	0	1000	1060	10	20	mg/L	106	0	80	120	0
10565256	749938_10565256	SWWW0110-061021DUP	3999809	SWWW0110-061021	LR	INITIAL	TDS	D	1	2021-06-17 05:53	METHOD	2021-06-17 05:53	SM 2540C	135	0	134	5	10	mg/L	0	1	0	0	5
10565256	749938_10565256	SWWW0111-061021DUP	3999810	SWWW0111-061021	LR	INITIAL	TDS	D	1	2021-06-17 05:53	METHOD	2021-06-17 05:53	SM 2540C	176	0	167	5	10	mg/L	0	5	0	0	5

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	749941_10565256	3999815BLANK_10565256	3999815		MB	INITIAL	TDS	D	1	2021-06-17 07:14	METHOD	2021-06-17 07:14	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10565256	749941_10565256	3999816LCS_10565256	3999816		LCS	INITIAL	TDS	D	1	2021-06-17 07:14	METHOD	2021-06-17 07:14	SM 2540C	0	1000	1070	10	20	mg/L	107	0	80	120	0
10565256	750247_10565256	4001554BLANK_10565256	4001554		MB	INITIAL	TDS	D	1	2021-06-18 06:59	METHOD	2021-06-18 06:59	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10565256	750247_10565256	4001555LCS_10565256	4001555		LCS	INITIAL	TDS	D	1	2021-06-18 06:59	METHOD	2021-06-18 06:59	SM 2540C	0	1000	1060	10	20	mg/L	106	0	80	120	0
10565256	728389_10565256	2925687BLANK_10565256	2925687		MB	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:04	EPA 351.2	0	0	0.48	0.48	0.5	mg/L	0	0	0	0	0
10565256	728389_10565256	2925688LCS_10565256	2925688		LCS	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:05	EPA 351.2	0	5	5.4	0.48	0.5	mg/L	108	0	90	110	0
10565256	728389_10565256	SWWW0107-061021DUP	2925689	SWWW0107-061021	LR	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:32	EPA 351.2	1.1	0	0.34	0.48	0.5	mg/L	0	0	0	0	10
10565256	728389_10565256	SWWW0107-061021MS	2925690	SWWW0107-061021	MS	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:33	EPA 351.2	1.1	5	5.7	0.48	0.5	mg/L	92	0	90	110	0
10565256	728389_10565256	SWWW0107-061021MSD	2925691	SWWW0107-061021	MSD	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:35	EPA 351.2	1.1	5	5.3	0.48	0.5	mg/L	84	7	90	110	10
10565256	728391_10565256	SWWW0089-061021MSD	2925790	SWWW0089-061021	MSD	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:53	EPA 351.2	0.29	5	6	0.48	0.5	mg/L	115	1	90	110	10
10565256	728391_10565256	SWWW0089-061021MS	2925703	SWWW0089-061021	MS	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:52	EPA 351.2	0.29	5	6.1	0.48	0.5	mg/L	116	0	90	110	0
10565256	728391_10565256	SWWW0089-061021DUP	2925702	SWWW0089-061021	LR	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:43	EPA 351.2	0.29	0	0.36	0.48	0.5	mg/L	0	0	0	0	10
10565256	728391_10565256	2925700BLANK_10565256	2925700		MB	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:36	EPA 351.2	0	0	0.48	0.48	0.5	mg/L	0	0	0	0	0
10565256	728391_10565256	2925701LCS_10565256	2925701		LCS	INITIAL	TKN	T	1	2021-06-24 10:29	METHOD	2021-06-25 09:37	EPA 351.2	0	5	4.6	0.48	0.5	mg/L	92	0	90	110	0
10565256	749937_10565256	3999803BLANK_10565256	3999803		MB	INITIAL	TSS	T	1	2021-06-17 04:52	METHOD	2021-06-17 04:52	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10565256	749937_10565256	3999804LCS_10565256	3999804		LCS	INITIAL	TSS	T	1	2021-06-17 04:52	METHOD	2021-06-17 04:52	SM 2540D	0	100	82.6	10	20	mg/L	83	0	80	120	0
10565256	749937_10565256	SWWW0107-061021DUP	3999806	SWWW0107-061021	LR	INITIAL	TSS	T	1	2021-06-17 04:52	METHOD	2021-06-17 04:52	SM 2540D	4.9	0	6.8	5	10	mg/L	0	0	0	0	5
10565256	749937_10565256	SWWW0089-061021DUP	3999805	SWWW0089-061021	LR	INITIAL	TSS	T	1	2021-06-17 04:52	METHOD	2021-06-17 04:52	SM 2540D	6.1	0	6.5	5	10	mg/L	0	0	0	0	5
10565256	749939_10565256	3999811BLANK_10565256	3999811		MB	INITIAL	TSS	T	1	2021-06-17 05:53	METHOD	2021-06-17 05:53	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10565256	749939_10565256	3999812LCS_10565256	3999812		LCS	INITIAL	TSS	T	1	2021-06-17 05:53	METHOD	2021-06-17 05:53	SM 2540D	0	100	87	10	20	mg/L	87	0	80	120	0
10565256	749939_10565256	SWWW0111-061021DUP	3999814	SWWW0111-061021	LR	INITIAL	TSS	T	1	2021-06-17 05:53	METHOD	2021-06-17 05:53	SM 2540D	12.9	0	12.5	5	10	mg/L	0	3	0	0	5
10565256	749939_10565256	SWWW0110-061021DUP	3999813	SWWW0110-061021	LR	INITIAL	TSS	T	1	2021-06-17 05:53	METHOD	2021-06-17 05:53	SM 2540D	47.2	0	41.8	5	10	mg/L	0	12	0	0	5
10565256	749948_10565256	3999844BLANK_10565256	3999844		MB	INITIAL	TSS	T	1	2021-06-17 10:36	METHOD	2021-06-17 10:36	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10565256	749948_10565256	3999845LCS_10565256	3999845		LCS	INITIAL	TSS	T	1	2021-06-17 10:36	METHOD	2021-06-17 10:36	SM 2540D	0	100	88	10	20	mg/L	88	0	80	120	0
10565256	750882_10565256	4004697BLANK_10565256	4004697		MB	INITIAL	TSS	T	1	2021-06-21 11:21	METHOD	2021-06-21 11:21	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10565256	750882_10565256	4004698LCS_10565256	4004698		LCS	INITIAL	TSS	T	1	2021-06-21 11:21	METHOD	2021-06-21 11:21	SM 2540D	0	100	109	10	20	mg/L	109	0	80	120	0
10565256	750605_10565256	4003691LCS_10565256	4003691		LCS	INITIAL	ZnDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:17	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	104	0	85	115	0
10565256	750605_10565256	4003690BLANK_10565256	4003690		MB	INITIAL	ZnDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:13	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10565256	750605_10565256	SWWW0127-061021MS	4003694	SWWW0127-061021	MS	INITIAL	ZnDis	D	1	2021-06-22 12:34	EPA 200.8	2021-06-25 08:27	EPA 200.8	0.038	0.1	0.14	0.0023	0.005	mg/L	103	0	70	130	0
10565256	751103_10565256	4005777BLANK_10565256	4005777		MB	INITIAL	ZnDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:43	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10565256	751103_10565256	4005778LCS_10565256	4005778		LCS	INITIAL	ZnDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-30 11:47	EPA 200.8	0	0.1	0.11	0.0023	0.005	mg/L	108	0	85	115	0
10565256	751103_10565256	SWWW0089-061021MSD	4005780	SWWW0089-061021	MSD	INITIAL	ZnDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:03	EPA 200.8	0.0097	0.1	0.11	0.0023	0.005	mg/L	101	2	70	130	20
10565256	751103_10565256	SWWW0089-061021MS	4005779	SWWW0089-061021	MS	INITIAL	ZnDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 12:00	EPA 200.8	0.0097	0.1	0.11	0.0023	0.005	mg/L	99	0	70	130	0
10565256	751103_10565256	SWWW0107-061021MSD	4005782	SWWW0107-061021	MSD	INITIAL	ZnDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 02:37	EPA 200.8	0.0075	0.1	0.11	0.0023	0.005	mg/L	106	3	70	130	20
10565256	751103_10565256	SWWW0107-061021MS	4005781	SWWW0107-061021	MS	INITIAL	ZnDis	D	1	2021-06-24 05:52	EPA 200.8	2021-07-01 06:04	EPA 200.8	0.0075	0.1	0.11	0.0023	0.005	mg/L	102	0	70	130	0
10565256	751104_10565256	SWWW0109-061021MS	4005786	SWWW0109-061021	MS	INITIAL	ZnDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:00	EPA 200.8	0.0066	0.1	0.1	0.011	0.025	mg/L	98	0	70	130	0
10565256	751104_10565256	4005784BLANK_10565256	4005784		MB	INITIAL	ZnDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:31	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10565256	751104_10565256	4005785LCS_10565256	4005785		LCS	INITIAL	ZnDis	D	1	2021-06-24 05:52	EPA 200.8	2021-06-25 10:35	EPA 200.8	0	0.1	0.096	0.0023	0.005	mg/L	96	0	85	115	0
10565256	751104_10565256	SWWW0109-061021MSD	4005787	SWWW0109-061021	MSD	INITIAL	ZnDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-25 11:04	EPA 200.8	0.0066	0.1	0.1	0.011	0.025	mg/L	97	1	70	130	20
10565256	751104_10565256	SWWW0119-061021MS	4005788	SWWW0119-061021	MS	INITIAL	ZnDis	D	5	2021-06-24 05:52	EPA 200.8	2021-06-26 12:46	EPA 200.8	0.01	0.1	0.12	0.011	0.025	mg/L	107	0	70	130	0
10565256	757551_10565256	SWWW0121-061021MSD	4039930	SWWW0121-061021	MSD	INITIAL	ZnDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:30	EPA 200.8	0.026	0.1	0.14	0.0098	0.025	mg/L	111	7	70	130	20
10565256	757551_10565256	SWWW0121-061021MS	4039929	SWWW0121-061021	MS	INITIAL	ZnDis	D	5	2021-07-21 05:21	EPA 200.8	2021-07-21 11:27	EPA 200.8	0.026	0.1	0.13	0.0098	0.025	mg/L	102	0	70	130	0
10565256	757551_10565256	4039927BLANK_10565256	4039927		MB	INITIAL	ZnDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:10	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10565256	757551_10565256	4039928LCS_10565256	4039928		LCS	INITIAL	ZnDis	D	1	2021-07-21 05:21	EPA 200.8	2021-07-21 11:14	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	100	0	85	115	0
10565256	750657_10565256	4003825LCS_10565256	4003825		LCS	INITIAL	ZnTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:26	EPA 200.8	0	0.1	0.11	0.0023	0.005	mg/L	109	0	85	115	0
10565256	750657_10565256	4003824BLANK_10565256	4003824		MB	INITIAL	ZnTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 10:16	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10565256	750657_10565256	SWWW0127-061021MS	4003828	SWWW0127-061021	MS	INITIAL	ZnTR	T	1	2021-06-22 12:34	EPA 200.8	2021-06-24 11:59	EPA 200.8	0.053	0.1	0.16	0.0023	0.005	mg/L	112	0	70	130	0
10565256	751106_10565256	4005791BLANK_10565256	4005791		MB	INITIAL	ZnTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:18	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10565256	751106_10565256	4005792LCS_10565256	4005792		LCS	INITIAL	ZnTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:21	EPA 200.8	0	0.1	0.11	0.0023	0.005	mg/L	108	0	85	115	0
10565256	751106_10565256	SWWW0107-061021MS	4005795	SWWW0107-061021	MS	INITIAL	ZnTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:49	EPA 200.8	0.01	0.1	0.11	0.0023	0.005	mg/L	101	0	70	130	0
10565256	751106_10565256	SWWW0107-061021MSD	4005796	SWWW0107-061021	MSD	INITIAL	ZnTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 08:52	EPA 200.8	0.01	0.1	0.11	0.0023	0.005	mg/L	99	2	70	130	20
10565256	751106_10565256	SWWW0089-061021MS	4005793	SWWW0089-061021	MS	INITIAL	ZnTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:33	EPA 200.8	0.012	0.1	0.11	0.0023	0.005	mg/L	100	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10565256	751106_10565256	SWWW0089-061021MSD	4005794	SWWW0089-061021	MSD	INITIAL	ZnTR	T	1	2021-06-24 04:57	EPA 200.8	2021-06-25 07:36	EPA 200.8	0.012	0.1	0.11	0.0023	0.005	mg/L	95	5	70	130	20
10565256	752887_10565256	SWWW0109-061021MS	4014647	SWWW0109-061021	MS	INITIAL	ZnTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:39	EPA 200.8	0.023	0.1	0.13	0.0023	0.005	mg/L	103	0	70	130	0
10565256	752887_10565256	4014646LCS_10565256	4014646		LCS	INITIAL	ZnTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:26	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	101	0	85	115	0
10565256	752887_10565256	4014645BLANK_10565256	4014645		MB	INITIAL	ZnTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:23	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10565256	752887_10565256	SWWW0120-061021MS	4014649	SWWW0120-061021	MS	INITIAL	ZnTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 08:29	EPA 200.8	0.012	0.1	0.11	0.0023	0.005	mg/L	98	0	70	130	0
10565256	752887_10565256	SWWW0109-061021MSD	4014648	SWWW0109-061021	MSD	INITIAL	ZnTR	T	1	2021-06-30 07:06	EPA 200.8	2021-07-02 07:42	EPA 200.8	0.023	0.1	0.12	0.0023	0.005	mg/L	99	3	70	130	20
10565256	757553_10565256	4040363LCSD_10565256	4040363	4039935LCS_10565256	LCSD	INITIAL	ZnTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:50	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	104	2	85	115	20
10565256	757553_10565256	4039935LCS_10565256	4039935		LCS	INITIAL	ZnTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:47	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	106	0	85	115	0
10565256	757553_10565256	4039934BLANK_10565256	4039934		MB	INITIAL	ZnTR	T	1	2021-07-21 05:21	EPA 200.8	2021-07-21 10:44	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	AgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	AgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	0.05	0.052	0.000077	0.0005	mg/L	103	0	85	115	0
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	AgDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	0.000016	0.05	0.049	0.00038	0.0025	mg/L	98	0	70	130	0
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	REANALYSIS	AgDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-16 05:18	EPA 200.8	0	0.05	0.049	0.00038	0.0025	mg/L	97	0	70	130	0
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	REANALYSIS	AgDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-16 05:22	EPA 200.8	0	0.05	0.049	0.00038	0.0025	mg/L	98	1	70	130	20
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	AgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	0	0.05	0.049	0.00016	0.0005	mg/L	99	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	AgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	0.000054	0.05	0.048	0.00016	0.0005	mg/L	96	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	AgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	0.000054	0.05	0.047	0.00016	0.0005	mg/L	94	2	70	130	20
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	AgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	AgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	0.05	0.048	0.00016	0.0005	mg/L	96	0	85	115	0
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	AgDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	AgDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	0.05	0.052	0.000077	0.0005	mg/L	104	0	85	115	0
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	AgDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	0.00019	0.05	0.046	0.00038	0.0025	mg/L	91	0	70	130	0
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	AgDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	0.00019	0.05	0.046	0.00038	0.0025	mg/L	92	1	70	130	20
10568665	754586_10568665	SWWW0150-070121MSD	4024023	SWWW0150-070121	MSD	INITIAL	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:31	EPA 200.8	0.00024	0.05	0.048	0.00016	0.0005	mg/L	95	1	70	130	20
10568665	754586_10568665	SWWW0150-070121MS	4024022	SWWW0150-070121	MS	INITIAL	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:28	EPA 200.8	0.00024	0.05	0.047	0.00016	0.0005	mg/L	94	0	70	130	0
10568665	754586_10568665	SWWW0133-070121MS	4024021	SWWW0133-070121	MS	INITIAL	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:38	EPA 200.8	0.00027	0.05	0.051	0.00016	0.0005	mg/L	102	0	70	130	0
10568665	754586_10568665	4024019BLANK_10568665	4024019		MB	INITIAL	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:21	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10568665	754586_10568665	4024020LCS_10568665	4024020		LCS	INITIAL	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:31	EPA 200.8	0	0.05	0.05	0.00016	0.0005	mg/L	100	0	85	115	0
10568665	754587_10568665	4024024BLANK_10568665	4024024		MB	INITIAL	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:38	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10568665	754587_10568665	4024025LCS_10568665	4024025		LCS	REANALYSIS	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-19 10:23	EPA 200.8	0	0.05	0.049	0.00016	0.0005	mg/L	98	0	85	115	0
10568665	754587_10568665	SWWW0153-070121MS	4024026	SWWW0153-070121	MS	REANALYSIS	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-19 10:29	EPA 200.8	0.00014	0.05	0.05	0.00016	0.0005	mg/L	100	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MS	4024027	SWWW0163-070121	MS	REANALYSIS	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-19 11:20	EPA 200.8	0.000023	0.05	0.051	0.00016	0.0005	mg/L	101	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MSD	4024028	SWWW0163-070121	MSD	REANALYSIS	AgTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-19 11:23	EPA 200.8	0.000023	0.05	0.049	0.00016	0.0005	mg/L	98	3	70	130	20
10568665	754588_10568665	SWWW0173-070121MSD	4024032	SWWW0173-070121	MSD	INITIAL	AgTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:25	EPA 200.8	0.00039	0.05	0.045	0.00038	0.0025	mg/L	89	1	70	130	20
10568665	754588_10568665	SWWW0173-070121MS	4024031	SWWW0173-070121	MS	INITIAL	AgTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:22	EPA 200.8	0.00039	0.05	0.044	0.00038	0.0025	mg/L	88	0	70	130	0
10568665	754588_10568665	4024029BLANK_10568665	4024029		MB	INITIAL	AgTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 10:59	EPA 200.8	0	0	0.000077	0.000077	0.0005	mg/L	0	0	0	0	0
10568665	754588_10568665	4024030LCS_10568665	4024030		LCS	INITIAL	AgTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 11:02	EPA 200.8	0	0.05	0.051	0.000077	0.0005	mg/L	102	0	85	115	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	AlDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	2	2.1	0.0071	0.02	mg/L	107	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	AlDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	AlDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	0.008	2	2.1	0.036	0.1	mg/L	106	0	70	130	0
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	AlDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	0.0083	2	2.2	0.036	0.1	mg/L	108	0	70	130	0
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	AlDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	0.0083	2	2.2	0.036	0.1	mg/L	109	1	70	130	20
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	AlDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	0.043	2	2.1	0.008	0.02	mg/L	103	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	AlDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	0.2	2	2.2	0.008	0.02	mg/L	102	3	70	130	20
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	AlDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	0.2	2	2.3	0.008	0.02	mg/L	105	0	70	130	0
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	AlDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	AlDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	103	0	85	115	0
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	AlDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	AlDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	2	2	0.0071	0.02	mg/L	101	0	85	115	0
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	AlDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	0.0058	2	1.8	0.036	0.1	mg/L	91	0	70	130	0
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	AlDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	0.0058	2	1.8	0.036	0.1	mg/L	90	2	70	130	20
10568665	755811_10568665	4029763BLANK_10568665	4029763		MB	INITIAL	ALK_CaCO3	T	1	2021-07-14 10:44	METHOD	2021-07-14 10:44	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10568665	755811_10568665	4029764LCS_10568665	4029764		LCS	INITIAL	ALK_CaCO3	T	1	2021-07-14 10:47	METHOD	2021-07-14 10:47	SM 2320B	0	40	42.6	1.8	5	mg/L	107	0	90	110	0
10568665	755811_10568665	4029765LCSD_10568665	4029765	4029764LCS_10568665	LCSD	INITIAL	ALK_CaCO3	T	1	2021-07-14 10:50	METHOD	2021-07-14 10:50	SM 2320B	0	40	42.7	1.8	5	mg/L	107	0	90	110	20
10568665	756209_10568665	4032232BLANK_10568665	4032232		MB	INITIAL	ALK_CaCO3	T	1	2021-07-14 04:47	METHOD	2021-07-14 04:47	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10568665	756209_10568665	4032233LCS_10568665	4032233		LCS	INITIAL	ALK_CaCO3	T	1	2021-07-14 04:51	METHOD	2021-07-14 04:51	SM 2320B	0	40	42.5	1.8	5	mg/L	106	0	90	110	0
10568665	756209_10568665	4032234LCSD_10568665	4032234	4032233LCS_10568665	LCSD	INITIAL	ALK_CaCO3	T	1	2021-07-14 04:54	METHOD	2021-07-14 04:54	SM 2320B	0	40	42.6	1.8	5	mg/L	106	0	90	110	20
10568665	756209_10568665	SWWW0163-070121MS	4032237	SWWW0163-070121	MS	INITIAL	ALK_CaCO3	T	1	2021-07-14 06:53	METHOD	2021-07-14 06:53	SM 2320B	114	40	156	1.8	5	mg/L	104	0	80	120	0
10568665	756209_10568665	SWWW0163-070121MSD	4032238	SWWW0163-070121	MSD	INITIAL	ALK_CaCO3	T	1	2021-07-14 06:57	METHOD	2021-07-14 06:57	SM 2320B	114	40	155	1.8	5	mg/L	103	0	80	120	20
10568665	756209_10568665	SWWW0150-070121MSD	4032236	SWWW0150-070121	MSD	INITIAL	ALK_CaCO3	T	1	2021-07-14 05:46	METHOD	2021-07-14 05:46	SM 2320B	90	40	132	1.8	5	mg/L	106	1	80	120	20
10568665	756209_10568665	SWWW0150-070121MS	4032235	SWWW0150-070121	MS	INITIAL	ALK_CaCO3	T	1	2021-07-14 05:41	METHOD	2021-07-14 05:41	SM 2320B	90	40	131	1.8	5	mg/L	103	0	80	120	0
10568665	756456_10568665	SWWW0143-070121MS	4033481	SWWW0143-070121	MS	INITIAL	ALK_CaCO3	T	1	2021-07-15 02:39	METHOD	2021-07-15 02:39	SM 2320B	64.2	40	104	1.8	5	mg/L	100	0	80	120	0
10568665	756456_10568665	SWWW0143-070121MSD	4033482	SWWW0143-070121	MSD	INITIAL	ALK_CaCO3	T	1	2021-07-15 02:45	METHOD	2021-07-15 02:45	SM 2320B	64.2	40	105	1.8	5	mg/L	102	1	80	120	20
10568665	756456_10568665	4033478BLANK_10568665	4033478		MB	INITIAL	ALK_CaCO3	T	1	2021-07-15 01:50	METHOD	2021-07-15 01:50	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10568665	756456_10568665	4033479LCS_10568665	4033479		LCS	INITIAL	ALK_CaCO3	T	1	2021-07-15 01:53	METHOD	2021-07-15 01:53	SM 2320B	0	40	42.4	1.8	5	mg/L	106	0	90	110	0
10568665	756456_10568665	4033480LCSD_10568665	4033480	4033479LCS_10568665	LCSD	INITIAL	ALK_CaCO3	T	1	2021-07-15 01:55	METHOD	2021-07-15 01:55	SM 2320B	0	40	42.7	1.8	5	mg/L	107	1	90	110	20
10568665	756739_10568665	4035348BLANK_10568665	4035348		MB	INITIAL	ALK_CaCO3	T	1	2021-07-16 01:53	METHOD	2021-07-16 01:53	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10568665	756739_10568665	4035349LCS_10568665	4035349		LCS	INITIAL	ALK_CaCO3	T	1	2021-07-16 01:57	METHOD	2021-07-16 01:57	SM 2320B	0	40	44	1.8	5	mg/L	110	0	90	110	0
10568665	756739_10568665	4035350LCSD_10568665	4035350	4035349LCS_10568665	LCSD	INITIAL	ALK_CaCO3	T	1	2021-07-16 01:59	METHOD	2021-07-16 01:59	SM 2320B	0	40	42.7	1.8	5	mg/L	107	3	90	110	20
10568665	754586_10568665	SWWW0133-070121MS	4024021	SWWW0133-070121	MS	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:38	EPA 200.8	2.1	2	4.5	0.008	0.02	mg/L	119	0	70	130	0
10568665	754586_10568665	SWWW0150-070121MS	4024022	SWWW0150-070121	MS	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:28	EPA 200.8	1.9	2	4.3	0.008	0.02	mg/L	119	0	70	130	0
10568665	754586_10568665	SWWW0150-070121MSD	4024023	SWWW0150-070121	MSD	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:31	EPA 200.8	1.9	2	4.2	0.008	0.02	mg/L	117	1	70	130	20
10568665	754586_10568665	4024019BLANK_10568665	4024019		MB	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:21	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10568665	754586_10568665	4024020LCS_10568665	4024020		LCS	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:31	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	105	0	85	115	0
10568665	754587_10568665	4024024BLANK_10568665	4024024		MB	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:38	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10568665	754587_10568665	4024025LCS_10568665	4024025		LCS	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:41	EPA 200.8	0	2	2.1	0.0071	0.02	mg/L	106	0	85	115	0
10568665	754587_10568665	SWWW0153-070121MS	4024026	SWWW0153-070121	MS	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:48	EPA 200.8	2.4	2	5	0.0071	0.02	mg/L	130	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MSD	4024028	SWWW0163-070121	MSD	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:42	EPA 200.8	0.15	2	2.3	0.0071	0.02	mg/L	107	2	70	130	20
10568665	754587_10568665	SWWW0163-070121MS	4024027	SWWW0163-070121	MS	INITIAL	AlTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:39	EPA 200.8	0.15	2	2.3	0.0071	0.02	mg/L	110	0	70	130	0
10568665	754588_10568665	SWWW0173-070121MSD	4024032	SWWW0173-070121	MSD	INITIAL	AlTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:25	EPA 200.8	1.2	2	2.8	0.036	0.1	mg/L	82	3	70	130	20
10568665	754588_10568665	SWWW0173-070121MS	4024031	SWWW0173-070121	MS	INITIAL	AlTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:22	EPA 200.8	1.2	2	2.9	0.036	0.1	mg/L	86	0	70	130	0
10568665	754588_10568665	4024029BLANK_10568665	4024029		MB	INITIAL	AlTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 10:59	EPA 200.8	0	0	0.0071	0.0071	0.02	mg/L	0	0	0	0	0
10568665	754588_10568665	4024030LCS_10568665	4024030		LCS	INITIAL	AlTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 11:02	EPA 200.8	0	2	2	0.0071	0.02	mg/L	99	0	85	115	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	AsDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	103	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	AsDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	AsDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	0.0029	0.1	0.11	0.0007	0.0025	mg/L	103	1	70	130	20
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	AsDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	0.0029	0.1	0.11	0.0007	0.0025	mg/L	104	0	70	130	0
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	AsDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	0.0039	0.1	0.1	0.0007	0.0025	mg/L	101	0	70	130	0
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	AsDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	0.0043	0.1	0.11	0.000083	0.0005	mg/L	109	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	AsDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	0.0052	0.1	0.11	0.000083	0.0005	mg/L	103	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	AsDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	0.0052	0.1	0.11	0.000083	0.0005	mg/L	102	1	70	130	20
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	AsDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	AsDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	101	0	85	115	0
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	AsDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	AsDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	0.1	0.095	0.00014	0.0005	mg/L	95	0	85	115	0
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	AsDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	0.0031	0.1	0.092	0.0007	0.0025	mg/L	89	1	70	130	20
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	AsDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	0.0031	0.1	0.094	0.0007	0.0025	mg/L	90	0	70	130	0
10568665	754586_10568665	SWWW0150-070121MSD	4024023	SWWW0150-070121	MSD	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:31	EPA 200.8	0.012	0.1	0.12	0.000083	0.0005	mg/L	107	2	70	130	20
10568665	754586_10568665	SWWW0133-070121MS	4024021	SWWW0133-070121	MS	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:38	EPA 200.8	0.0072	0.1	0.11	0.000083	0.0005	mg/L	107	0	70	130	0
10568665	754586_10568665	SWWW0150-070121MS	4024022	SWWW0150-070121	MS	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:28	EPA 200.8	0.012	0.1	0.12	0.000083	0.0005	mg/L	109	0	70	130	0
10568665	754586_10568665	4024020LCS_10568665	4024020		LCS	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:31	EPA 200.8	0	0.1	0.11	0.000083	0.0005	mg/L	105	0	85	115	0
10568665	754586_10568665	4024019BLANK_10568665	4024019		MB	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:21	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10568665	754587_10568665	4024024BLANK_10568665	4024024		MB	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:38	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10568665	754587_10568665	4024025LCS_10568665	4024025		LCS	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:41	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	103	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10568665	754587_10568665	SWWW0153-070121MS	4024026	SWWW0153-070121	MS	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:48	EPA 200.8	0.008	0.1	0.11	0.00014	0.0005	mg/L	106	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MS	4024027	SWWW0163-070121	MS	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:39	EPA 200.8	0.005	0.1	0.11	0.00014	0.0005	mg/L	104	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MSD	4024028	SWWW0163-070121	MSD	INITIAL	AsTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:42	EPA 200.8	0.005	0.1	0.11	0.00014	0.0005	mg/L	105	1	70	130	20
10568665	754588_10568665	SWWW0173-070121MS	4024031	SWWW0173-070121	MS	INITIAL	AsTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:22	EPA 200.8	0.0059	0.1	0.095	0.0007	0.0025	mg/L	89	0	70	130	0
10568665	754588_10568665	SWWW0173-070121MSD	4024032	SWWW0173-070121	MSD	INITIAL	AsTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:25	EPA 200.8	0.0059	0.1	0.091	0.0007	0.0025	mg/L	85	4	70	130	20
10568665	754588_10568665	4024029BLANK_10568665	4024029		MB	INITIAL	AsTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 10:59	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
10568665	754588_10568665	4024030LCS_10568665	4024030		LCS	INITIAL	AsTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 11:02	EPA 200.8	0	0.1	0.095	0.00014	0.0005	mg/L	95	0	85	115	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	CaDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	2	2.1	0.015	0.04	mg/L	106	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	CaDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	CaDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	205	2	204	0.076	0.2	mg/L	0	0	70	130	0
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	CaDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	205	2	207	0.076	0.2	mg/L	100	1	70	130	20
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	CaDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	31.4	2	33.7	0.076	0.2	mg/L	117	0	70	130	0
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	CaDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	29.6	2	31.3	0.018	0.04	mg/L	82	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	CaDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	43.8	2	43.9	0.018	0.04	mg/L	2	4	70	130	20
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	CaDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	43.8	2	45.6	0.018	0.04	mg/L	89	0	70	130	0
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	REANALYSIS	CaDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 09:11	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	REANALYSIS	CaDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 09:14	EPA 200.8	0	2	2.3	0.018	0.04	mg/L	113	0	85	115	0
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	CaDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.015	0.015	0.04	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	CaDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	2	2	0.015	0.04	mg/L	99	0	85	115	0
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	CaDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	95.4	2	92.1	0.076	0.2	mg/L	318	0	70	130	0
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	CaDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	95.4	2	90.7	0.076	0.2	mg/L	247	2	70	130	20
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	CdDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	0.000074	0.1	0.1	0.00015	0.0004	mg/L	103	3	70	130	20
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	CdDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	0.000027	0.1	0.1	0.00015	0.0004	mg/L	100	0	70	130	0
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	CdDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	0.000074	0.1	0.1	0.00015	0.0004	mg/L	101	0	70	130	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	CdDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	102	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	CdDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	CdDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	102	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	CdDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	CdDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	CdDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	101	0	85	115	0
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	CdDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	0.000045	0.1	0.11	0.000016	0.00008	mg/L	106	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	CdDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	0.000051	0.1	0.1	0.000016	0.00008	mg/L	102	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	CdDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	0.000051	0.1	0.099	0.000016	0.00008	mg/L	99	3	70	130	20
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	CdDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	0.00011	0.1	0.091	0.00015	0.0004	mg/L	91	1	70	130	20
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	CdDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	0.00011	0.1	0.092	0.00015	0.0004	mg/L	92	0	70	130	0
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	CdDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	CdDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	0.1	0.097	0.00003	0.00008	mg/L	97	0	85	115	0
10568665	754586_10568665	4024019BLANK_10568665	4024019		MB	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:21	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10568665	754586_10568665	4024020LCS_10568665	4024020		LCS	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:31	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	105	0	85	115	0
10568665	754586_10568665	SWWW0150-070121MSD	4024023	SWWW0150-070121	MSD	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:31	EPA 200.8	0.00041	0.1	0.1	0.000016	0.00008	mg/L	101	2	70	130	20
10568665	754586_10568665	SWWW0150-070121MS	4024022	SWWW0150-070121	MS	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:28	EPA 200.8	0.00041	0.1	0.1	0.000016	0.00008	mg/L	103	0	70	130	0
10568665	754586_10568665	SWWW0133-070121MS	4024021	SWWW0133-070121	MS	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:38	EPA 200.8	0.00015	0.1	0.11	0.000016	0.00008	mg/L	107	0	70	130	0
10568665	754587_10568665	SWWW0153-070121MS	4024026	SWWW0153-070121	MS	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:48	EPA 200.8	0.00017	0.1	0.1	0.00003	0.00008	mg/L	104	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MS	4024027	SWWW0163-070121	MS	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:39	EPA 200.8	0.000041	0.1	0.1	0.00003	0.00008	mg/L	103	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MSD	4024028	SWWW0163-070121	MSD	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:42	EPA 200.8	0.000041	0.1	0.1	0.00003	0.00008	mg/L	104	0	70	130	20
10568665	754587_10568665	4024024BLANK_10568665	4024024		MB	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:38	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10568665	754587_10568665	4024025LCS_10568665	4024025		LCS	INITIAL	CdTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:41	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	103	0	85	115	0
10568665	754588_10568665	4024029BLANK_10568665	4024029		MB	INITIAL	CdTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 10:59	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
10568665	754588_10568665	4024030LCS_10568665	4024030		LCS	INITIAL	CdTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 11:02	EPA 200.8	0	0.1	0.097	0.00003	0.00008	mg/L	97	0	85	115	0
10568665	754588_10568665	SWWW0173-070121MS	4024031	SWWW0173-070121	MS	INITIAL	CdTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:22	EPA 200.8	0.00025	0.1	0.088	0.00015	0.0004	mg/L	88	0	70	130	0
10568665	754588_10568665	SWWW0173-070121MSD	4024032	SWWW0173-070121	MSD	INITIAL	CdTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:25	EPA 200.8	0.00025	0.1	0.088	0.00015	0.0004	mg/L	87	0	70	130	20
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	CuDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	0.0071	0.1	0.11	0.0021	0.005	mg/L	106	0	70	130	20
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	CuDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	0.0079	0.1	0.11	0.0021	0.005	mg/L	104	0	70	130	0
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	CuDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	0.0071	0.1	0.11	0.0021	0.005	mg/L	105	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	CuDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	0.1	0.11	0.00043	0.001	mg/L	106	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	CuDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	CuDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	CuDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	102	0	85	115	0
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	CuDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	0.012	0.1	0.11	0.0005	0.001	mg/L	103	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	CuDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	0.0071	0.1	0.11	0.0005	0.001	mg/L	100	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	CuDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	0.0071	0.1	0.11	0.0005	0.001	mg/L	99	1	70	130	20
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	CuDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	0.0052	0.1	0.1	0.0021	0.005	mg/L	95	2	70	130	20
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	CuDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	0.0052	0.1	0.099	0.0021	0.005	mg/L	94	0	70	130	0
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	CuDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	CuDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	102	0	85	115	0
10568665	754586_10568665	4024020LCS_10568665	4024020		LCS	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:31	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	106	0	85	115	0
10568665	754586_10568665	4024019BLANK_10568665	4024019		MB	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:21	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10568665	754586_10568665	SWWW0150-070121MSD	4024023	SWWW0150-070121	MSD	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:31	EPA 200.8	0.066	0.1	0.17	0.0005	0.001	mg/L	106	1	70	130	20
10568665	754586_10568665	SWWW0150-070121MS	4024022	SWWW0150-070121	MS	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:28	EPA 200.8	0.066	0.1	0.17	0.0005	0.001	mg/L	104	0	70	130	0
10568665	754586_10568665	SWWW0133-070121MS	4024021	SWWW0133-070121	MS	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:38	EPA 200.8	0.034	0.1	0.14	0.0005	0.001	mg/L	108	0	70	130	0
10568665	754587_10568665	SWWW0153-070121MS	4024026	SWWW0153-070121	MS	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:48	EPA 200.8	0.046	0.1	0.16	0.00043	0.001	mg/L	110	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MS	4024027	SWWW0163-070121	MS	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:39	EPA 200.8	0.0066	0.1	0.11	0.00043	0.001	mg/L	104	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MSD	4024028	SWWW0163-070121	MSD	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:42	EPA 200.8	0.0066	0.1	0.11	0.00043	0.001	mg/L	104	0	70	130	20
10568665	754587_10568665	4024024BLANK_10568665	4024024		MB	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:38	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10568665	754587_10568665	4024025LCS_10568665	4024025		LCS	INITIAL	CuTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:41	EPA 200.8	0	0.1	0.11	0.00043	0.001	mg/L	108	0	85	115	0
10568665	754588_10568665	4024029BLANK_10568665	4024029		MB	INITIAL	CuTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 10:59	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
10568665	754588_10568665	4024030LCS_10568665	4024030		LCS	INITIAL	CuTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 11:02	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	101	0	85	115	0
10568665	754588_10568665	SWWW0173-070121MS	4024031	SWWW0173-070121	MS	INITIAL	CuTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:22	EPA 200.8	0.027	0.1	0.12	0.0021	0.005	mg/L	91	0	70	130	0
10568665	754588_10568665	SWWW0173-070121MSD	4024032	SWWW0173-070121	MSD	INITIAL	CuTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:25	EPA 200.8	0.027	0.1	0.12	0.0021	0.005	mg/L	90	1	70	130	20
10568665	731840_10568665	SWWW0150-070121MSD	2937784	SWWW0150-070121	MSD	INITIAL	DOC	D	1	2021-07-15 07:53	METHOD	2021-07-15 07:53	SM 5310C	2.4	5	8.3	0.3	1	mg/L	119	1	80	120	25
10568665	731840_10568665	SWWW0150-070121DUP	2937782	SWWW0150-070121	LR	INITIAL	DOC	D	1	2021-07-15 07:27	METHOD	2021-07-15 07:27	SM 5310C	2.4	0	2.6	0.3	1	mg/L	0	9	0	0	25
10568665	731840_10568665	SWWW0150-070121MS	2937783	SWWW0150-070121	MS	INITIAL	DOC	D	1	2021-07-15 07:40	METHOD	2021-07-15 07:40	SM 5310C	2.4	5	8.3	0.3	1	mg/L	120	0	80	120	0
10568665	731840_10568665	2937780BLANK_10568665	2937780		MB	INITIAL	DOC	D	1	2021-07-15 04:48	METHOD	2021-07-15 04:48	SM 5310C	0	0	0.3	0.3	1	mg/L	0	0	0	0	0
10568665	731840_10568665	2937781LCS_10568665	2937781		LCS	INITIAL	DOC	D	1	2021-07-15 05:01	METHOD	2021-07-15 05:01	SM 5310C	0	5	5.3	0.3	1	mg/L	105	0	80	120	0
10568665	731841_10568665	2937785BLANK_10568665	2937785		MB	INITIAL	DOC	D	1	2021-07-15 11:39	METHOD	2021-07-15 11:39	SM 5310C	0	0	0.3	0.3	1	mg/L	0	0	0	0	0
10568665	731841_10568665	2937786LCS_10568665	2937786		LCS	INITIAL	DOC	D	1	2021-07-15 11:52	METHOD	2021-07-15 11:52	SM 5310C	0	5	5.4	0.3	1	mg/L	108	0	80	120	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	FeDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	109	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	FeDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	FeDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	0.014	2	2.2	0.06	0.25	mg/L	108	0	70	130	20
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	FeDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	0.014	2	2.2	0.06	0.25	mg/L	109	0	70	130	0
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	FeDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	0.033	2	2.2	0.06	0.25	mg/L	106	0	70	130	0
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	FeDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	0.07	2	2.2	0.012	0.05	mg/L	107	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	FeDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	0.62	2	2.7	0.012	0.05	mg/L	105	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	FeDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	0.62	2	2.6	0.012	0.05	mg/L	102	2	70	130	20
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	FeDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	FeDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	106	0	85	115	0
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	FeDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	FeDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	2	2	0.012	0.05	mg/L	99	0	85	115	0
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	FeDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	0.019	2	1.9	0.06	0.25	mg/L	92	1	70	130	20
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	FeDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	0.019	2	1.9	0.06	0.25	mg/L	92	0	70	130	0
10568665	754586_10568665	SWWW0150-070121MSD	4024023	SWWW0150-070121	MSD	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:31	EPA 200.8	3.2	2	5.3	0.012	0.05	mg/L	103	3	70	130	20
10568665	754586_10568665	SWWW0133-070121MS	4024021	SWWW0133-070121	MS	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:38	EPA 200.8	2.5	2	4.7	0.012	0.05	mg/L	111	0	70	130	0
10568665	754586_10568665	SWWW0150-070121MS	4024022	SWWW0150-070121	MS	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:28	EPA 200.8	3.2	2	5.5	0.012	0.05	mg/L	112	0	70	130	0
10568665	754586_10568665	4024019BLANK_10568665	4024019		MB	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:21	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10568665	754586_10568665	4024020LCS_10568665	4024020		LCS	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:31	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	109	0	85	115	0
10568665	754587_10568665	4024024BLANK_10568665	4024024		MB	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:38	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10568665	754587_10568665	4024025LCS_10568665	4024025		LCS	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:41	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	108	0	85	115	0
10568665	754587_10568665	SWWW0153-070121MS	4024026	SWWW0153-070121	MS	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:48	EPA 200.8	2.6	2	5.2	0.012	0.05	mg/L	131	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MSD	4024028	SWWW0163-070121	MSD	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:42	EPA 200.8	0.55	2	2.7	0.012	0.05	mg/L	109	1	70	130	20
10568665	754587_10568665	SWWW0163-070121MS	4024027	SWWW0163-070121	MS	INITIAL	FeTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:39	EPA 200.8	0.55	2	2.8	0.012	0.05	mg/L	110	0	70	130	0
10568665	754588_10568665	SWWW0173-070121MSD	4024032	SWWW0173-070121	MSD	INITIAL	FeTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:25	EPA 200.8	1.4	2	3	0.06	0.25	mg/L	81	3	70	130	20
10568665	754588_10568665	SWWW0173-070121MS	4024031	SWWW0173-070121	MS	INITIAL	FeTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:22	EPA 200.8	1.4	2	3.1	0.06	0.25	mg/L	86	0	70	130	0
10568665	754588_10568665	4024029BLANK_10568665	4024029		MB	INITIAL	FeTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 10:59	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10568665	754588_10568665	4024030LCS_10568665	4024030		LCS	INITIAL	FeTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 11:02	EPA 200.8	0	2	1.9	0.012	0.05	mg/L	97	0	85	115	0
10568665	754590_10568665	4024037BLANK_10568665	4024037		MB	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 10:06	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10568665	754590_10568665	4024038LCS_10568665	4024038		LCS	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 10:08	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	0	85	115	0
10568665	754590_10568665	SWWW0150-070121MSD	4024041	SWWW0150-070121	MSD	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 10:44	EPA 245.1	0	0.005	0.0056	0.000045	0.0002	mg/L	111	2	70	130	20
10568665	754590_10568665	SWWW0150-070121MS	4024040	SWWW0150-070121	MS	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 10:43	EPA 245.1	0	0.005	0.0055	0.000045	0.0002	mg/L	109	0	70	130	0
10568665	754590_10568665	SWWW0134-070121MS	4024039	SWWW0134-070121	MS	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 10:12	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10568665	754591_10568665	SWWW0154-070121MS	4024044	SWWW0154-070121	MS	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 09:26	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10568665	754591_10568665	SWWW0163-070121MSD	4024046	SWWW0163-070121	MSD	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 09:44	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	4	70	130	20
10568665	754591_10568665	SWWW0163-070121MS	4024045	SWWW0163-070121	MS	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 09:43	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
10568665	754591_10568665	4024042BLANK_10568665	4024042		MB	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 09:20	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10568665	754591_10568665	4024043LCS_10568665	4024043		LCS	INITIAL	HgDis	D	1	2021-07-08 04:01	EPA 245.1	2021-07-13 09:21	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	108	0	85	115	0
10568665	754592_10568665	4024047BLANK_10568665	4024047		MB	INITIAL	HgDis	D	1	2021-07-08 07:11	EPA 245.1	2021-07-13 08:48	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10568665	754592_10568665	4024048LCS_10568665	4024048		LCS	INITIAL	HgDis	D	1	2021-07-08 07:11	EPA 245.1	2021-07-13 08:49	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	108	0	85	115	0
10568665	754592_10568665	SWWW0174-070121MS	4024049	SWWW0174-070121	MS	INITIAL	HgDis	D	1	2021-07-08 07:11	EPA 245.1	2021-07-13 08:54	EPA 245.1	0.000048	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
10568665	754592_10568665	SWWW0174-070121MSD	4024050	SWWW0174-070121	MSD	INITIAL	HgDis	D	1	2021-07-08 07:11	EPA 245.1	2021-07-13 08:55	EPA 245.1	0.000048	0.005	0.0052	0.000045	0.0002	mg/L	103	2	70	130	20
10568665	754596_10568665	SWWW0150-070121MSD	4024065	SWWW0150-070121	MSD	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 12:17	EPA 245.1	0.000047	0.005	0.0054	0.000045	0.0002	mg/L	106	0	70	130	20
10568665	754596_10568665	SWWW0134-070121MS	4024063	SWWW0134-070121	MS	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 11:45	EPA 245.1	0.000029	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10568665	754596_10568665	SWWW0150-070121MS	4024064	SWWW0150-070121	MS	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 12:16	EPA 245.1	0.000047	0.005	0.0054	0.000045	0.0002	mg/L	106	0	70	130	0
10568665	754596_10568665	4024061BLANK_10568665	4024061		MB	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 11:39	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10568665	754596_10568665	4024062LCS_10568665	4024062		LCS	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 11:41	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	85	115	0
10568665	754597_10568665	4024066BLANK_10568665	4024066		MB	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 10:53	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10568665	754597_10568665	4024067LCS_10568665	4024067		LCS	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 10:54	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	105	0	85	115	0
10568665	754597_10568665	SWWW0154-070121MS	4024068	SWWW0154-070121	MS	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 10:59	EPA 245.1	0.000085	0.005	0.0054	0.000045	0.0002	mg/L	107	0	70	130	0
10568665	754597_10568665	SWWW0163-070121MS	4024069	SWWW0163-070121	MS	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 11:16	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	109	0	70	130	0
10568665	754597_10568665	SWWW0163-070121MSD	4024070	SWWW0163-070121	MSD	INITIAL	HgTR	T	1	2021-07-08 01:59	EPA 245.1	2021-07-13 11:18	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	5	70	130	20
10568665	754598_10568665	SWWW0174-070121MSD	4024074	SWWW0174-070121	MSD	INITIAL	HgTR	T	1	2021-07-08 07:11	EPA 245.1	2021-07-13 09:11	EPA 245.1	0.000057	0.005	0.0053	0.000045	0.0002	mg/L	105	2	70	130	20
10568665	754598_10568665	SWWW0174-070121MS	4024073	SWWW0174-070121	MS	INITIAL	HgTR	T	1	2021-07-08 07:11	EPA 245.1	2021-07-13 09:10	EPA 245.1	0.000057	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10568665	754598_10568665	4024071BLANK_10568665	4024071		MB	INITIAL	HgTR	T	1	2021-07-08 07:11	EPA 245.1	2021-07-13 09:04	EPA 245.1	0	0	0.000048	0.000045	0.0002	mg/L	0	0	0	0	0
10568665	754598_10568665	4024072LCS_10568665	4024072		LCS	INITIAL	HgTR	T	1	2021-07-08 07:11	EPA 245.1	2021-07-13 09:05	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	109	0	85	115	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	MgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	2	2.1	0.0039	0.01	mg/L	106	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	MgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	MgDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	9.6	2	12.1	0.019	0.05	mg/L	129	3	70	130	20
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	MgDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	9.6	2	11.8	0.019	0.05	mg/L	110	0	70	130	0
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	MgDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	7.9	2	10.1	0.019	0.05	mg/L	113	0	70	130	0
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	MgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	7.8	2	9.7	0.0034	0.01	mg/L	94	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	MgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	10.6	2	12.5	0.0034	0.01	mg/L	93	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	MgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	10.6	2	12.1	0.0034	0.01	mg/L	75	3	70	130	20
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	MgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.0036	0.0034	0.01	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	MgDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	2	2.1	0.0034	0.01	mg/L	103	0	85	115	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	MgDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	2	2.1	0.0039	0.01	mg/L	106	0	85	115	0
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	MgDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.0039	0.0039	0.01	mg/L	0	0	0	0	0
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	MgDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	9.3	2	11.7	0.019	0.05	mg/L	103	0	70	130	0
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	MgDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	9.3	2	11.3	0.019	0.05	mg/L	82	4	70	130	20
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	MoDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	0.29	0.1	0.39	0.0004	0.0025	mg/L	104	2	70	130	20
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	MoDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	0.0047	0.1	0.11	0.0004	0.0025	mg/L	101	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	MoDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	0.29	0.1	0.38	0.0004	0.0025	mg/L	97	0	70	130	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	MoDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	MoDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	103	0	85	115	0
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	MoDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	MoDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	101	0	85	115	0
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	MoDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	0.0048	0.1	0.11	0.000094	0.0005	mg/L	108	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	MoDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	0.0068	0.1	0.11	0.000094	0.0005	mg/L	101	3	70	130	20
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	MoDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	0.0068	0.1	0.11	0.000094	0.0005	mg/L	104	0	70	130	0
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	MoDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	0.13	0.1	0.22	0.0004	0.0025	mg/L	90	0	70	130	0
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	MoDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	0.13	0.1	0.22	0.0004	0.0025	mg/L	88	1	70	130	20
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	MoDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	MoDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	104	0	85	115	0
10568665	754586_10568665	4024019BLANK_10568665	4024019		MB	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:21	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10568665	754586_10568665	4024020LCS_10568665	4024020		LCS	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:31	EPA 200.8	0	0.1	0.11	0.000094	0.0005	mg/L	106	0	85	115	0
10568665	754586_10568665	SWWW0150-070121MSD	4024023	SWWW0150-070121	MSD	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:31	EPA 200.8	0.29	0.1	0.4	0.000094	0.0005	mg/L	112	1	70	130	20
10568665	754586_10568665	SWWW0150-070121MS	4024022	SWWW0150-070121	MS	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:28	EPA 200.8	0.29	0.1	0.41	0.000094	0.0005	mg/L	117	0	70	130	0
10568665	754586_10568665	SWWW0133-070121MS	4024021	SWWW0133-070121	MS	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:38	EPA 200.8	0.0053	0.1	0.11	0.000094	0.0005	mg/L	110	0	70	130	0
10568665	754587_10568665	SWWW0153-070121MS	4024026	SWWW0153-070121	MS	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:48	EPA 200.8	0.0055	0.1	0.11	0.000081	0.0005	mg/L	107	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MS	4024027	SWWW0163-070121	MS	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:39	EPA 200.8	0.007	0.1	0.11	0.000081	0.0005	mg/L	107	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MSD	4024028	SWWW0163-070121	MSD	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:42	EPA 200.8	0.007	0.1	0.12	0.000081	0.0005	mg/L	109	1	70	130	20
10568665	754587_10568665	4024024BLANK_10568665	4024024		MB	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:38	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10568665	754587_10568665	4024025LCS_10568665	4024025		LCS	INITIAL	MoTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:41	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	104	0	85	115	0
10568665	754588_10568665	4024029BLANK_10568665	4024029		MB	INITIAL	MoTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 10:59	EPA 200.8	0	0	0.000081	0.000081	0.0005	mg/L	0	0	0	0	0
10568665	754588_10568665	4024030LCS_10568665	4024030		LCS	INITIAL	MoTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 11:02	EPA 200.8	0	0.1	0.1	0.000081	0.0005	mg/L	104	0	85	115	0
10568665	754588_10568665	SWWW0173-070121MS	4024031	SWWW0173-070121	MS	INITIAL	MoTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:22	EPA 200.8	0.13	0.1	0.21	0.0004	0.0025	mg/L	79	0	70	130	0
10568665	754588_10568665	SWWW0173-070121MSD	4024032	SWWW0173-070121	MSD	INITIAL	MoTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:25	EPA 200.8	0.13	0.1	0.21	0.0004	0.0025	mg/L	80	1	70	130	20
10568665	755360_10568665	4027809BLANK_10568665	4027809		MB	INITIAL	NH3-N	T	1	2021-07-12 09:41	METHOD	2021-07-12 09:41	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10568665	755360_10568665	4027810LCS_10568665	4027810		LCS	INITIAL	NH3-N	T	1	2021-07-12 09:43	METHOD	2021-07-12 09:43	EPA 350.1	0	2.5	2.4	0.03	0.1	mg/L	98	0	90	110	0
10568665	755361_10568665	4027815BLANK_10568665	4027815		MB	INITIAL	NH3-N	T	1	2021-07-12 10:24	METHOD	2021-07-12 10:24	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10568665	755361_10568665	4027816LCS_10568665	4027816		LCS	INITIAL	NH3-N	T	1	2021-07-12 10:26	METHOD	2021-07-12 10:26	EPA 350.1	0	2.5	2.4	0.03	0.1	mg/L	97	0	90	110	0
10568665	755361_10568665	SWWW0150-070121MSD	4027820	SWWW0150-070121	MSD	INITIAL	NH3-N	T	1	2021-07-12 11:00	METHOD	2021-07-12 11:00	EPA 350.1	0.017	2.5	2.4	0.03	0.1	mg/L	95	2	90	110	20
10568665	755361_10568665	SWWW0135-070121MS	4027817	SWWW0135-070121	MS	INITIAL	NH3-N	T	1	2021-07-12 10:28	METHOD	2021-07-12 10:28	EPA 350.1	0.064	2.5	2.6	0.03	0.1	mg/L	100	0	90	110	0
10568665	755361_10568665	SWWW0135-070121MSD	4027818	SWWW0135-070121	MSD	INITIAL	NH3-N	T	1	2021-07-12 10:33	METHOD	2021-07-12 10:33	EPA 350.1	0.064	2.5	2.6	0.03	0.1	mg/L	99	0	90	110	20
10568665	755361_10568665	SWWW0150-070121MS	4027819	SWWW0150-070121	MS	INITIAL	NH3-N	T	1	2021-07-12 10:58	METHOD	2021-07-12 10:58	EPA 350.1	0.017	2.5	2.4	0.03	0.1	mg/L	97	0	90	110	0
10568665	755460_10568665	4028133BLANK_10568665	4028133		MB	INITIAL	NH3-N	T	1	2021-07-12 11:10	METHOD	2021-07-12 11:10	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10568665	755460_10568665	4028134LCS_10568665	4028134		LCS	INITIAL	NH3-N	T	1	2021-07-12 11:11	METHOD	2021-07-12 11:11	EPA 350.1	0	2.5	2.4	0.03	0.1	mg/L	96	0	90	110	0
10568665	754807_10568665	4024775BLANK_10568665	4024775		MB	INITIAL	NO3/NO2-N	T	1	2021-07-08 03:45	METHOD	2021-07-08 03:45	SM 4500-NO3-H	0	0	0.089	0.078	0.2	mg/L	0	0	0	0	0
10568665	754807_10568665	4024776LCS_10568665	4024776		LCS	INITIAL	NO3/NO2-N	T	1	2021-07-08 01:59	METHOD	2021-07-08 01:59	SM 4500-NO3-H	0	2.5	2.4	0.078	0.2	mg/L	97	0	90	110	0
10568665	754822_10568665	4024856BLANK_10568665	4024856		MB	INITIAL	NO3/NO2-N	T	1	2021-07-08 05:09	METHOD	2021-07-08 05:09	SM 4500-NO3-H	0	0	0.089	0.078	0.2	mg/L	0	0	0	0	0
10568665	754822_10568665	4024857LCS_10568665	4024857		LCS	INITIAL	NO3/NO2-N	T	1	2021-07-08 03:48	METHOD	2021-07-08 03:48	SM 4500-NO3-H	0	2.5	2.3	0.078	0.2	mg/L	91	0	90	110	0
10568665	754822_10568665	SWWW0150-070121MS	4024860	SWWW0150-070121	MS	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:13	METHOD	2021-07-08 04:13	SM 4500-NO3-H	1.1	2.5	3.5	0.078	0.2	mg/L	97	0	80	120	0
10568665	754822_10568665	SWWW0135-070121MSD	4024859	SWWW0135-070121	MSD	INITIAL	NO3/NO2-N	T	1	2021-07-08 03:54	METHOD	2021-07-08 03:54	SM 4500-NO3-H	0.45	2.5	3	0.078	0.2	mg/L	101	2	80	120	20
10568665	754822_10568665	SWWW0135-070121MS	4024858	SWWW0135-070121	MS	INITIAL	NO3/NO2-N	T	1	2021-07-08 03:53	METHOD	2021-07-08 03:53	SM 4500-NO3-H	0.45	2.5	2.9	0.078	0.2	mg/L	98	0	80	120	0
10568665	754822_10568665	SWWW0150-070121MSD	4024861	SWWW0150-070121	MSD	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:13	METHOD	2021-07-08 04:13	SM 4500-NO3-H	1.1	2.5	3.4	0.078	0.2	mg/L	96	1	80	120	20
10568665	754823_10568665	SWWW0155-070121MS	4024864	SWWW0155-070121	MS	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:24	METHOD	2021-07-08 04:24	SM 4500-NO3-H	0.1	2.5	2.6	0.078	0.2	mg/L	99	0	80	120	0
10568665	754823_10568665	SWWW0155-070121MSD	4024865	SWWW0155-070121	MSD	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:26	METHOD	2021-07-08 04:26	SM 4500-NO3-H	0.1	2.5	2.5	0.078	0.2	mg/L	96	4	80	120	20
10568665	754823_10568665	SWWW0163-070121MS	4024866	SWWW0163-070121	MS	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:36	METHOD	2021-07-08 04:36	SM 4500-NO3-H	1.3	2.5	3.8	0.078	0.2	mg/L	97	0	80	120	0
10568665	754823_10568665	SWWW0163-070121MSD	4024867	SWWW0163-070121	MSD	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:38	METHOD	2021-07-08 04:38	SM 4500-NO3-H	1.3	2.5	3.7	0.078	0.2	mg/L	94	2	80	120	20
10568665	754823_10568665	4024862BLANK_10568665	4024862		MB	INITIAL	NO3/NO2-N	T	1	2021-07-09 07:53	METHOD	2021-07-09 07:53	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10568665	754823_10568665	4024863LCS_10568665	4024863		LCS	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:22	METHOD	2021-07-08 04:22	SM 4500-NO3-H	0	2.5	2.4	0.078	0.2	mg/L	95	0	90	110	0
10568665	754824_10568665	4024868BLANK_10568665	4024868		MB	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:51	METHOD	2021-07-08 04:51	SM 4500-NO3-H	0	0	0.083	0.078	0.2	mg/L	0	0	0	0	0
10568665	754824_10568665	4024869LCS_10568665	4024869		LCS	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:53	METHOD	2021-07-08 04:53	SM 4500-NO3-H	0	2.5	2.3	0.078	0.2	mg/L	93	0	90	110	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10568665	754824_10568665	SWWW0175-070121MS	4024870	SWWW0175-070121	MS	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:55	METHOD	2021-07-08 04:55	SM 4500-NO3-H	0.83	2.5	3.4	0.078	0.2	mg/L	102	0	80	120	0
10568665	754824_10568665	SWWW0175-070121MSD	4024871	SWWW0175-070121	MSD	INITIAL	NO3/NO2-N	T	1	2021-07-08 04:56	METHOD	2021-07-08 04:56	SM 4500-NO3-H	0.83	2.5	3.2	0.078	0.2	mg/L	96	4	80	120	20
10568665	755609_10568665	4029045BLANK_10568665	4029045		MB	INITIAL	P	T	1	2021-07-13 12:29	SM4500-P-B	2021-07-15 11:09	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10568665	755609_10568665	4029046LCS_10568665	4029046		LCS	INITIAL	P	T	1	2021-07-13 12:29	SM4500-P-B	2021-07-15 11:10	SM 4500-P-F	0	2.5	2.4	0.05	0.1	mg/L	97	0	90	110	0
10568665	755610_10568665	4029051BLANK_10568665	4029051		MB	INITIAL	P	T	1	2021-07-13 12:29	SM4500-P-B	2021-07-16 10:41	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10568665	755610_10568665	4029052LCS_10568665	4029052		LCS	INITIAL	P	T	1	2021-07-13 12:29	SM4500-P-B	2021-07-16 10:42	SM 4500-P-F	0	2.5	2.4	0.05	0.1	mg/L	97	0	90	110	0
10568665	755610_10568665	SWWW0150-070121MSD	4029056	SWWW0150-070121	MSD	INITIAL	P	T	1	2021-07-13 12:29	SM4500-P-B	2021-07-16 10:56	SM 4500-P-F	0.41	2.5	2.8	0.05	0.1	mg/L	95	1	80	120	20
10568665	755610_10568665	SWWW0142-070121MS	4029053	SWWW0142-070121	MS	INITIAL	P	T	1	2021-07-13 12:29	SM4500-P-B	2021-07-16 10:44	SM 4500-P-F	0.21	2.5	2.6	0.05	0.1	mg/L	98	0	80	120	0
10568665	755610_10568665	SWWW0142-070121MSD	4029054	SWWW0142-070121	MSD	INITIAL	P	T	1	2021-07-13 12:29	SM4500-P-B	2021-07-16 10:45	SM 4500-P-F	0.21	2.5	2.6	0.05	0.1	mg/L	97	0	80	120	20
10568665	755610_10568665	SWWW0150-070121MS	4029055	SWWW0150-070121	MS	INITIAL	P	T	1	2021-07-13 12:29	SM4500-P-B	2021-07-16 10:55	SM 4500-P-F	0.41	2.5	2.8	0.05	0.1	mg/L	94	0	80	120	0
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	PbDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	0.00018	0.1	0.1	0.00022	0.0005	mg/L	102	1	70	130	20
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	PbDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	0.00018	0.1	0.1	0.00022	0.0005	mg/L	101	0	70	130	0
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	PbDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	0.00012	0.1	0.099	0.00022	0.0005	mg/L	99	0	70	130	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	PbDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	104	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	PbDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	PbDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	PbDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	103	0	85	115	0
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	PbDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	0.00031	0.1	0.11	0.000028	0.0001	mg/L	107	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	PbDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	0.0021	0.1	0.1	0.000028	0.0001	mg/L	99	0	70	130	0
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	PbDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	0.0021	0.1	0.1	0.000028	0.0001	mg/L	98	1	70	130	20
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	PbDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	0.00047	0.1	0.09	0.00022	0.0005	mg/L	89	0	70	130	0
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	PbDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	0.00047	0.1	0.089	0.00022	0.0005	mg/L	89	0	70	130	20
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	PbDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.00008	0.000043	0.0001	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	PbDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	0.1	0.098	0.000043	0.0001	mg/L	98	0	85	115	0
10568665	760609_10568665	4055581BLANK_10568665	4055581		MB	INITIAL	PbDis	D	1	2021-08-03 05:15	EPA 200.8	2021-08-04 09:08	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10568665	760609_10568665	4055582LCS_10568665	4055582		LCS	INITIAL	PbDis	D	1	2021-08-03 05:15	EPA 200.8	2021-08-04 09:28	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	103	0	85	115	0
10568665	760609_10568665	4055633LCSD_10568665	4055633	4055582LCS_10568665	LCSD	INITIAL	PbDis	D	1	2021-08-03 05:15	EPA 200.8	2021-08-04 09:25	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	104	1	85	115	20
10568665	754586_10568665	SWWW0133-070121MS	4024021	SWWW0133-070121	MS	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:38	EPA 200.8	0.009	0.1	0.11	0.000028	0.0001	mg/L	104	0	70	130	0
10568665	754586_10568665	SWWW0150-070121MS	4024022	SWWW0150-070121	MS	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:28	EPA 200.8	0.023	0.1	0.12	0.000028	0.0001	mg/L	101	0	70	130	0
10568665	754586_10568665	SWWW0150-070121MSD	4024023	SWWW0150-070121	MSD	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:31	EPA 200.8	0.023	0.1	0.12	0.000028	0.0001	mg/L	98	3	70	130	20
10568665	754586_10568665	4024019BLANK_10568665	4024019		MB	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:21	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10568665	754586_10568665	4024020LCS_10568665	4024020		LCS	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:31	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	105	0	85	115	0
10568665	754587_10568665	4024024BLANK_10568665	4024024		MB	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:38	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
10568665	754587_10568665	4024025LCS_10568665	4024025		LCS	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:41	EPA 200.8	0	0.1	0.11	0.000043	0.0001	mg/L	105	0	85	115	0
10568665	754587_10568665	SWWW0163-070121MS	4024027	SWWW0163-070121	MS	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:39	EPA 200.8	0.0015	0.1	0.1	0.000043	0.0001	mg/L	102	0	70	130	0
10568665	754587_10568665	SWWW0153-070121MS	4024026	SWWW0153-070121	MS	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:48	EPA 200.8	0.011	0.1	0.12	0.000043	0.0001	mg/L	108	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MSD	4024028	SWWW0163-070121	MSD	INITIAL	PbTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:42	EPA 200.8	0.0015	0.1	0.11	0.000043	0.0001	mg/L	106	3	70	130	20
10568665	754588_10568665	SWWW0173-070121MSD	4024032	SWWW0173-070121	MSD	INITIAL	PbTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:25	EPA 200.8	0.02	0.1	0.11	0.00022	0.0005	mg/L	86	1	70	130	20
10568665	754588_10568665	SWWW0173-070121MS	4024031	SWWW0173-070121	MS	INITIAL	PbTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:22	EPA 200.8	0.02	0.1	0.11	0.00022	0.0005	mg/L	87	0	70	130	0
10568665	754588_10568665	4024029BLANK_10568665	4024029		MB	INITIAL	PbTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 10:59	EPA 200.8	0	0	0.000091	0.000043	0.0001	mg/L	0	0	0	0	0
10568665	754588_10568665	4024030LCS_10568665	4024030		LCS	INITIAL	PbTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 11:02	EPA 200.8	0	0.1	0.097	0.000043	0.0001	mg/L	97	0	85	115	0
10568665	756645_10568665	4034841BLANK_10568665	4034841		MB	INITIAL	SO4	T	1	2021-07-16 05:33	METHOD	2021-07-16 05:33	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10568665	756645_10568665	4034842LCS_10568665	4034842		LCS	INITIAL	SO4	T	1	2021-07-16 05:33	METHOD	2021-07-16 05:33	ASTM D516-90-02	0	20	17.9	1.2	2.5	mg/L	89	0	80	120	0
10568665	756645_10568665	4034843LCSD_10568665	4034843	4034842LCS_10568665	LCSD	INITIAL	SO4	T	1	2021-07-16 05:34	METHOD	2021-07-16 05:34	ASTM D516-90-02	0	20	17.7	1.2	2.5	mg/L	89	1	80	120	20
10568665	756647_10568665	4034857BLANK_10568665	4034857		MB	INITIAL	SO4	T	1	2021-07-16 06:03	METHOD	2021-07-16 06:03	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10568665	756647_10568665	4034858LCS_10568665	4034858		LCS	INITIAL	SO4	T	1	2021-07-16 06:03	METHOD	2021-07-16 06:03	ASTM D516-90-02	0	20	18.5	1.2	2.5	mg/L	92	0	80	120	0
10568665	756647_10568665	4034859LCSD_10568665	4034859	4034858LCS_10568665	LCSD	INITIAL	SO4	T	1	2021-07-16 06:04	METHOD	2021-07-16 06:04	ASTM D516-90-02	0	20	18.4	1.2	2.5	mg/L	92	0	80	120	20
10568665	756647_10568665	SWWW0150-070121MS	4034862	SWWW0150-070121	MS	INITIAL	SO4	T	25	2021-07-16 06:33	METHOD	2021-07-16 06:33	ASTM D516-90-02	405	100	570	30.2	62.5	mg/L	165	0	80	120	0
10568665	756647_10568665	SWWW0150-070121MSD	4034863	SWWW0150-070121	MSD	INITIAL	SO4	T	25	2021-07-16 06:33	METHOD	2021-07-16 06:33	ASTM D516-90-02	405	100	528	30.2	62.5	mg/L	123	8	80	120	30
10568665	756647_10568665	SWWW0141-070121MS	4034860	SWWW0141-070121	MS	INITIAL	SO4	T	25	2021-07-16 06:30	METHOD	2021-07-16 06:30	ASTM D516-90-02	338	100	484	30.2	62.5	mg/L	146	0	80	120	0
10568665	756647_10568665	SWWW0141-070121MSD	4034861	SWWW0141-070121	MSD	INITIAL	SO4	T	25	2021-07-16 06:31	METHOD	2021-07-16 06:31	ASTM D516-90-02	338	100	472	30.2	62.5	mg/L	134	3	80	120	30
10568665	756654_10568665	SWWW0162-070121MS	4034896	SWWW0162-070121	MS	INITIAL	SO4	T	5	2021-07-19 01:48	METHOD	2021-07-19 01:48	ASTM D516-90-02	36.2	100	178	6	12.5	mg/L	141	0	80	120	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10568665	756654_10568665	SWWW0162-070121MSD	4034897	SWWW0162-070121	MSD	INITIAL	SO4	T	5	2021-07-19 01:48	METHOD	2021-07-19 01:48	ASTM D516-90-02	36.2	100	151	6	12.5	mg/L	114	16	80	120	30
10568665	756654_10568665	SWWW0163-070121MSD	4034899	SWWW0163-070121	MSD	INITIAL	SO4	T	5	2021-07-19 01:50	METHOD	2021-07-19 01:50	ASTM D516-90-02	36.6	100	126	6	12.5	mg/L	90	14	80	120	30
10568665	756654_10568665	SWWW0163-070121MS	4034898	SWWW0163-070121	MS	INITIAL	SO4	T	5	2021-07-19 01:49	METHOD	2021-07-19 01:49	ASTM D516-90-02	36.6	100	146	6	12.5	mg/L	109	0	80	120	0
10568665	756654_10568665	4034893BLANK_10568665	4034893		MB	INITIAL	SO4	T	1	2021-07-19 01:45	METHOD	2021-07-19 01:45	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10568665	756654_10568665	4034894LCS_10568665	4034894		LCS	INITIAL	SO4	T	1	2021-07-19 01:46	METHOD	2021-07-19 01:46	ASTM D516-90-02	0	20	18.2	1.2	2.5	mg/L	91	0	80	120	0
10568665	756654_10568665	4034895LCSD_10568665	4034895	4034894LCS_10568665	LCSD	INITIAL	SO4	T	1	2021-07-19 01:46	METHOD	2021-07-19 01:46	ASTM D516-90-02	0	20	18.4	1.2	2.5	mg/L	92	1	80	120	20
10568665	757775_10568665	SWWW0165-070121MS	4040925	SWWW0165-070121	MS	INITIAL	SO4	T	25	2021-07-21 07:45	METHOD	2021-07-21 07:45	ASTM D516-90-02	336	100	462	30.2	62.5	mg/L	127	0	80	120	0
10568665	757775_10568665	SWWW0165-070121MSD	4040926	SWWW0165-070121	MSD	INITIAL	SO4	T	25	2021-07-21 07:45	METHOD	2021-07-21 07:45	ASTM D516-90-02	336	100	449	30.2	62.5	mg/L	114	3	80	120	30
10568665	757775_10568665	SWWW0169-070121MS	4040927	SWWW0169-070121	MS	INITIAL	SO4	T	25	2021-07-21 07:46	METHOD	2021-07-21 07:46	ASTM D516-90-02	344	100	470	30.2	62.5	mg/L	126	0	80	120	0
10568665	757775_10568665	SWWW0169-070121MSD	4040928	SWWW0169-070121	MSD	INITIAL	SO4	T	25	2021-07-21 07:57	METHOD	2021-07-21 07:57	ASTM D516-90-02	344	100	490	30.2	62.5	mg/L	146	4	80	120	30
10568665	757775_10568665	4040922BLANK_10568665	4040922		MB	INITIAL	SO4	T	1	2021-07-21 07:01	METHOD	2021-07-21 07:01	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10568665	757775_10568665	4040923LCS_10568665	4040923		LCS	INITIAL	SO4	T	1	2021-07-21 07:02	METHOD	2021-07-21 07:02	ASTM D516-90-02	0	20	19	1.2	2.5	mg/L	95	0	80	120	0
10568665	757775_10568665	4040924LCSD_10568665	4040924	4040923LCS_10568665	LCSD	INITIAL	SO4	T	1	2021-07-21 07:02	METHOD	2021-07-21 07:02	ASTM D516-90-02	0	20	18.7	1.2	2.5	mg/L	94	1	80	120	20
10568665	754643_10568665	SWWW0150-070121DUP	4024155	SWWW0150-070121	LR	INITIAL	TDS	D	1	2021-07-08 12:51	METHOD	2021-07-08 12:51	SM 2540C	900	0	888	5	10	mg/L	0	1	0	0	5
10568665	754643_10568665	SWWW0151-070121DUP	4024156	SWWW0151-070121	LR	INITIAL	TDS	D	1	2021-07-08 12:51	METHOD	2021-07-08 12:51	SM 2540C	180	0	188	5	10	mg/L	0	4	0	0	5
10568665	754643_10568665	4024153BLANK_10568665	4024153		MB	INITIAL	TDS	D	1	2021-07-08 12:51	METHOD	2021-07-08 12:51	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10568665	754643_10568665	4024154LCS_10568665	4024154		LCS	INITIAL	TDS	D	1	2021-07-08 12:51	METHOD	2021-07-08 12:51	SM 2540C	0	1000	1000	10	20	mg/L	100	0	80	120	0
10568665	754647_10568665	4024175BLANK_10568665	4024175		MB	INITIAL	TDS	D	1	2021-07-08 02:12	METHOD	2021-07-08 02:12	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10568665	754647_10568665	4024176LCS_10568665	4024176		LCS	INITIAL	TDS	D	1	2021-07-08 02:12	METHOD	2021-07-08 02:12	SM 2540C	0	1000	1000	10	20	mg/L	100	0	80	120	0
10568665	754647_10568665	SWWW0163-070121DUP	4024178	SWWW0163-070121	LR	INITIAL	TDS	D	1	2021-07-08 02:12	METHOD	2021-07-08 02:12	SM 2540C	221	0	215	5	10	mg/L	0	3	0	0	5
10568665	754647_10568665	SWWW0162-070121DUP	4024177	SWWW0162-070121	LR	INITIAL	TDS	D	1	2021-07-08 02:12	METHOD	2021-07-08 02:12	SM 2540C	213	0	211	5	10	mg/L	0	1	0	0	5
10568665	754657_10568665	SWWW0176-070121DUP	4024229	SWWW0176-070121	LR	INITIAL	TDS	D	1	2021-07-08 04:08	METHOD	2021-07-08 04:08	SM 2540C	511	0	423	5	10	mg/L	0	19	0	0	5
10568665	754657_10568665	4024227BLANK_10568665	4024227		MB	INITIAL	TDS	D	1	2021-07-08 04:08	METHOD	2021-07-08 04:08	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10568665	754657_10568665	4024228LCS_10568665	4024228		LCS	INITIAL	TDS	D	1	2021-07-08 04:08	METHOD	2021-07-08 04:08	SM 2540C	0	1000	986	10	20	mg/L	99	0	80	120	0
10568665	732261_10568665	2939141BLANK_10568665	2939141		MB	INITIAL	TKN	T	1	2021-07-16 05:00	METHOD	2021-07-16 02:34	EPA 351.2	0	0	0.48	0.48	0.5	mg/L	0	0	0	0	0
10568665	732261_10568665	2939142LCS_10568665	2939142		LCS	INITIAL	TKN	T	1	2021-07-16 05:00	METHOD	2021-07-16 03:27	EPA 351.2	0	5	5.2	0.48	0.5	mg/L	105	0	90	110	0
10568665	732261_10568665	SWWW0150-070121MSD	2939145	SWWW0150-070121	MSD	INITIAL	TKN	T	1	2021-07-16 05:00	METHOD	2021-07-16 03:05	EPA 351.2	2	5	7.2	0.48	0.5	mg/L	104	6	90	110	10
10568665	732261_10568665	SWWW0150-070121DUP	2939143	SWWW0150-070121	LR	INITIAL	TKN	T	1	2021-07-16 05:00	METHOD	2021-07-16 03:00	EPA 351.2	2	0	1.7	0.48	0.5	mg/L	0	13	0	0	10
10568665	732261_10568665	SWWW0150-070121MS	2939144	SWWW0150-070121	MS	INITIAL	TKN	T	1	2021-07-16 05:00	METHOD	2021-07-16 03:01	EPA 351.2	2	5	6.8	0.48	0.5	mg/L	96	0	90	110	0
10568665	732262_10568665	SWWW0155-070121DUP	2939150	SWWW0155-070121	LR	INITIAL	TKN	T	1	2021-07-16 05:00	METHOD	2021-07-16 03:15	EPA 351.2	8.8	0	8.3	0.48	0.5	mg/L	0	6	0	0	10
10568665	732262_10568665	SWWW0153-070121MS	2939149	SWWW0153-070121	MS	INITIAL	TKN	T	1	2021-07-16 05:00	METHOD	2021-07-16 03:11	EPA 351.2	1.6	5	6.9	0.48	0.5	mg/L	106	0	90	110	0
10568665	732262_10568665	2939147BLANK_10568665	2939147		MB	INITIAL	TKN	T	1	2021-07-16 05:00	METHOD	2021-07-16 03:08	EPA 351.2	0	0	0.48	0.48	0.5	mg/L	0	0	0	0	0
10568665	732262_10568665	2939148LCS_10568665	2939148		LCS	INITIAL	TKN	T	1	2021-07-16 05:00	METHOD	2021-07-16 03:28	EPA 351.2	0	5	5.2	0.48	0.5	mg/L	105	0	90	110	0
10568665	754646_10568665	4024165BLANK_10568665	4024165		MB	INITIAL	TSS	T	1	2021-07-08 12:49	METHOD	2021-07-08 12:49	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10568665	754646_10568665	4024166LCS_10568665	4024166		LCS	INITIAL	TSS	T	1	2021-07-08 12:49	METHOD	2021-07-08 12:49	SM 2540D	0	100	87.8	10	20	mg/L	88	0	80	120	0
10568665	754646_10568665	SWWW0151-070121DUP	4024168	SWWW0151-070121	LR	INITIAL	TSS	T	1	2021-07-08 12:49	METHOD	2021-07-08 12:49	SM 2540D	37.7	0	37	5	10	mg/L	0	2	0	0	5
10568665	754646_10568665	SWWW0150-070121DUP	4024167	SWWW0150-070121	LR	INITIAL	TSS	T	1	2021-07-08 12:49	METHOD	2021-07-08 12:49	SM 2540D	122	0	129	5	10	mg/L	0	5	0	0	5
10568665	754649_10568665	SWWW0162-070121DUP	4024184	SWWW0162-070121	LR	INITIAL	TSS	T	1	2021-07-08 02:05	METHOD	2021-07-08 02:05	SM 2540D	27.8	0	32.6	5	10	mg/L	0	16	0	0	5
10568665	754649_10568665	SWWW0163-070121DUP	4024185	SWWW0163-070121	LR	INITIAL	TSS	T	1	2021-07-08 02:05	METHOD	2021-07-08 02:05	SM 2540D	3.6	0	5.2	5	10	mg/L	0	0	0	0	5
10568665	754649_10568665	4024182BLANK_10568665	4024182		MB	INITIAL	TSS	T	1	2021-07-08 02:05	METHOD	2021-07-08 02:05	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10568665	754649_10568665	4024183LCS_10568665	4024183		LCS	INITIAL	TSS	T	1	2021-07-08 02:05	METHOD	2021-07-08 02:05	SM 2540D	0	100	82.6	10	20	mg/L	83	0	80	120	0
10568665	754659_10568665	4024236BLANK_10568665	4024236		MB	INITIAL	TSS	T	1	2021-07-08 04:05	METHOD	2021-07-08 04:05	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10568665	754659_10568665	4024237LCS_10568665	4024237		LCS	INITIAL	TSS	T	1	2021-07-08 04:05	METHOD	2021-07-08 04:05	SM 2540D	0	100	82	10	20	mg/L	82	0	80	120	0
10568665	754659_10568665	SWWW0175-070121DUP	4024238	SWWW0175-070121	LR	INITIAL	TSS	T	1	2021-07-08 04:05	METHOD	2021-07-08 04:05	SM 2540D	172	0	176	5	10	mg/L	0	2	0	0	5
10568665	754583_10568665	SWWW0150-070121MSD	4024009	SWWW0150-070121	MSD	INITIAL	ZnDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:25	EPA 200.8	0.037	0.1	0.14	0.011	0.025	mg/L	106	1	70	130	20
10568665	754583_10568665	SWWW0150-070121MS	4024008	SWWW0150-070121	MS	INITIAL	ZnDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 09:22	EPA 200.8	0.037	0.1	0.14	0.011	0.025	mg/L	104	0	70	130	0
10568665	754583_10568665	SWWW0133-070121MS	4024007	SWWW0133-070121	MS	INITIAL	ZnDis	D	5	2021-07-08 02:26	EPA 200.8	2021-07-15 06:32	EPA 200.8	0.0091	0.1	0.11	0.011	0.025	mg/L	101	0	70	130	0
10568665	754583_10568665	4024006LCS_10568665	4024006		LCS	INITIAL	ZnDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:21	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	104	0	85	115	0
10568665	754583_10568665	4024005BLANK_10568665	4024005		MB	INITIAL	ZnDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-15 06:18	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10568665	754584_10568665	4024010BLANK_10568665	4024010		MB	INITIAL	ZnDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:55	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10568665	754584_10568665	4024011LCS_10568665	4024011		LCS	INITIAL	ZnDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 09:58	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	101	0	85	115	0
10568665	754584_10568665	SWWW0153-070121MS	4024012	SWWW0153-070121	MS	INITIAL	ZnDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-21 12:58	EPA 200.8	0.01	0.1	0.11	0.002	0.005	mg/L	103	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10568665	754584_10568665	SWWW0163-070121MSD	4024014	SWWW0163-070121	MSD	INITIAL	ZnDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:28	EPA 200.8	0.013	0.1	0.11	0.002	0.005	mg/L	97	3	70	130	20
10568665	754584_10568665	SWWW0163-070121MS	4024013	SWWW0163-070121	MS	INITIAL	ZnDis	D	1	2021-07-08 02:26	EPA 200.8	2021-07-20 11:25	EPA 200.8	0.013	0.1	0.11	0.002	0.005	mg/L	100	0	70	130	0
10568665	754585_10568665	SWWW0173-070121MS	4024017	SWWW0173-070121	MS	INITIAL	ZnDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:08	EPA 200.8	0.038	0.1	0.13	0.011	0.025	mg/L	89	0	70	130	0
10568665	754585_10568665	SWWW0173-070121MSD	4024018	SWWW0173-070121	MSD	INITIAL	ZnDis	D	5	2021-07-08 06:58	EPA 200.8	2021-07-15 02:11	EPA 200.8	0.038	0.1	0.13	0.011	0.025	mg/L	88	0	70	130	20
10568665	754585_10568665	4024015BLANK_10568665	4024015		MB	INITIAL	ZnDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:44	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10568665	754585_10568665	4024016LCS_10568665	4024016		LCS	INITIAL	ZnDis	D	1	2021-07-08 06:58	EPA 200.8	2021-07-15 01:48	EPA 200.8	0	0.1	0.096	0.0023	0.005	mg/L	96	0	85	115	0
10568665	754586_10568665	4024020LCS_10568665	4024020		LCS	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:31	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	106	0	85	115	0
10568665	754586_10568665	4024019BLANK_10568665	4024019		MB	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:21	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10568665	754586_10568665	SWWW0150-070121MSD	4024023	SWWW0150-070121	MSD	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:31	EPA 200.8	0.14	0.1	0.24	0.002	0.005	mg/L	107	1	70	130	20
10568665	754586_10568665	SWWW0133-070121MS	4024021	SWWW0133-070121	MS	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 06:38	EPA 200.8	0.051	0.1	0.16	0.002	0.005	mg/L	105	0	70	130	0
10568665	754586_10568665	SWWW0150-070121MS	4024022	SWWW0150-070121	MS	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-20 08:28	EPA 200.8	0.14	0.1	0.24	0.002	0.005	mg/L	109	0	70	130	0
10568665	754587_10568665	SWWW0153-070121MS	4024026	SWWW0153-070121	MS	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:48	EPA 200.8	0.063	0.1	0.17	0.0023	0.005	mg/L	109	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MS	4024027	SWWW0163-070121	MS	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:39	EPA 200.8	0.011	0.1	0.11	0.0023	0.005	mg/L	102	0	70	130	0
10568665	754587_10568665	SWWW0163-070121MSD	4024028	SWWW0163-070121	MSD	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-16 12:42	EPA 200.8	0.011	0.1	0.11	0.0023	0.005	mg/L	102	0	70	130	20
10568665	754587_10568665	4024024BLANK_10568665	4024024		MB	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:38	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10568665	754587_10568665	4024025LCS_10568665	4024025		LCS	INITIAL	ZnTR	T	1	2021-07-08 01:48	EPA 200.8	2021-07-15 11:41	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	105	0	85	115	0
10568665	754588_10568665	4024029BLANK_10568665	4024029		MB	INITIAL	ZnTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 10:59	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
10568665	754588_10568665	4024030LCS_10568665	4024030		LCS	INITIAL	ZnTR	T	1	2021-07-08 06:35	EPA 200.8	2021-07-15 11:02	EPA 200.8	0	0.1	0.097	0.0023	0.005	mg/L	97	0	85	115	0
10568665	754588_10568665	SWWW0173-070121MSD	4024032	SWWW0173-070121	MSD	INITIAL	ZnTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:25	EPA 200.8	0.094	0.1	0.18	0.011	0.025	mg/L	82	0	70	130	20
10568665	754588_10568665	SWWW0173-070121MS	4024031	SWWW0173-070121	MS	INITIAL	ZnTR	T	5	2021-07-08 06:35	EPA 200.8	2021-07-15 11:22	EPA 200.8	0.094	0.1	0.18	0.011	0.025	mg/L	82	0	70	130	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	0.05	0.053	0.00016	0.0005	mg/L	106	0	85	115	0
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	0.00016	0.05	0.053	0.00016	0.0005	mg/L	105	0	70	130	0
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:20	EPA 200.8	0.000024	0.05	0.051	0.00016	0.0005	mg/L	101	0	70	130	0
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:23	EPA 200.8	0.000024	0.05	0.051	0.00016	0.0005	mg/L	102	1	70	130	20
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	0.00018	0.05	0.054	0.00016	0.0005	mg/L	108	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	0.000027	0.05	0.053	0.00016	0.0005	mg/L	106	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	0.000027	0.05	0.053	0.00016	0.0005	mg/L	105	1	70	130	20
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	AgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	0.05	0.054	0.00016	0.0005	mg/L	108	0	85	115	0
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	AgDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	AgDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	0.05	0.055	0.00016	0.0005	mg/L	109	0	85	115	0
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	AgDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	0.00016	0.05	0.049	0.00016	0.0005	mg/L	97	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	AgDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	0.00016	0.05	0.05	0.00016	0.0005	mg/L	100	3	70	130	20
10572927	761404_10572927	SWWW0185-080121MSD	4059739	SWWW0185-080121	MSD	INITIAL	AgTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:16	EPA 200.8	0.000045	0.05	0.041	0.00082	0.0025	mg/L	81	6	70	130	20
10572927	761404_10572927	SWWW0185-080121MS	4059738	SWWW0185-080121	MS	INITIAL	AgTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:13	EPA 200.8	0.000045	0.05	0.038	0.00082	0.0025	mg/L	76	0	70	130	0
10572927	761404_10572927	4059735BLANK_10572927	4059735		MB	INITIAL	AgTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:18	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10572927	761404_10572927	4059736LCS_10572927	4059736		LCS	INITIAL	AgTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:21	EPA 200.8	0	0.05	0.051	0.00016	0.0005	mg/L	102	0	85	115	0
10572927	761404_10572927	SWWW0177-080121MS	4059737	SWWW0177-080121	MS	INITIAL	AgTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 01:30	EPA 200.8	0.00021	0.05	0.045	0.00082	0.0025	mg/L	89	0	70	130	0
10572927	761405_10572927	4059754BLANK_10572927	4059754		MB	INITIAL	AgTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:13	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10572927	761405_10572927	4059755LCS_10572927	4059755		LCS	INITIAL	AgTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:16	EPA 200.8	0	0.05	0.049	0.00016	0.0005	mg/L	99	0	85	115	0
10572927	761405_10572927	SWWW0204-080121MS	4059757	SWWW0204-080121	MS	INITIAL	AgTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:35	EPA 200.8	0.000039	0.05	0.044	0.00082	0.0025	mg/L	87	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MSD	4059758	SWWW0204-080121	MSD	INITIAL	AgTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:38	EPA 200.8	0.000039	0.05	0.043	0.00082	0.0025	mg/L	86	1	70	130	20
10572927	761405_10572927	SWWW0197-080121MS	4059756	SWWW0197-080121	MS	INITIAL	AgTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 10:25	EPA 200.8	0.00038	0.05	0.045	0.00082	0.0025	mg/L	90	0	70	130	0
10572927	761406_10572927	SWWW0217-080121MSD	4059764	SWWW0217-080121	MSD	INITIAL	AgTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:27	EPA 200.8	0.00042	0.05	0.044	0.00082	0.0025	mg/L	86	3	70	130	20
10572927	761406_10572927	SWWW0217-080121MS	4059763	SWWW0217-080121	MS	INITIAL	AgTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:24	EPA 200.8	0.00042	0.05	0.042	0.00082	0.0025	mg/L	84	0	70	130	0
10572927	761406_10572927	4059761BLANK_10572927	4059761		MB	INITIAL	AgTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:54	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10572927	761406_10572927	4059762LCS_10572927	4059762		LCS	INITIAL	AgTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:57	EPA 200.8	0	0.05	0.054	0.00016	0.0005	mg/L	108	0	85	115	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	103	0	85	115	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	0.007	2	2.1	0.008	0.02	mg/L	105	0	70	130	0
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	REANALYSIS	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-18 01:30	EPA 200.8	0.008	2	2	0.008	0.02	mg/L	101	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	REANALYSIS	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-18 01:33	EPA 200.8	0.008	2	2.1	0.008	0.02	mg/L	103	2	70	130	20
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	0.031	2	2.2	0.008	0.02	mg/L	109	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	0.0058	2	2.2	0.008	0.02	mg/L	110	0	70	130	20
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	0.0058	2	2.2	0.008	0.02	mg/L	110	0	70	130	0
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	AlDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	2	2.2	0.008	0.02	mg/L	108	0	85	115	0
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	AlDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	AlDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	103	0	85	115	0
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	AlDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	0.013	2	2.1	0.008	0.02	mg/L	103	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	AlDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	0.013	2	2	0.008	0.02	mg/L	99	4	70	130	20
10572927	762710_10572927	4066439BLANK_10572927	4066439		MB	INITIAL	ALK_CaCO3	T	1	2021-08-11 10:24	METHOD	2021-08-11 10:24	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10572927	762710_10572927	4066440LCS_10572927	4066440		LCS	INITIAL	ALK_CaCO3	T	1	2021-08-11 10:41	METHOD	2021-08-11 10:41	SM 2320B	0	40	42.6	1.8	5	mg/L	107	0	90	110	0
10572927	762710_10572927	4066441LCSD_10572927	4066441	4066440LCS_10572927	LCSD	INITIAL	ALK_CaCO3	T	1	2021-08-11 10:45	METHOD	2021-08-11 10:45	SM 2320B	0	40	42.7	1.8	5	mg/L	107	0	90	110	20
10572927	763057_10572927	4068280BLANK_10572927	4068280		MB	INITIAL	ALK_CaCO3	T	1	2021-08-12 11:20	METHOD	2021-08-12 11:20	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10572927	763057_10572927	4068281LCS_10572927	4068281		LCS	INITIAL	ALK_CaCO3	T	1	2021-08-12 11:23	METHOD	2021-08-12 11:23	SM 2320B	0	40	42.4	1.8	5	mg/L	106	0	90	110	0
10572927	763057_10572927	4068282LCSD_10572927	4068282	4068281LCS_10572927	LCSD	INITIAL	ALK_CaCO3	T	1	2021-08-12 11:26	METHOD	2021-08-12 11:26	SM 2320B	0	40	42.4	1.8	5	mg/L	106	0	90	110	20
10572927	763057_10572927	SWWW0185-080121MSD	4068286	SWWW0185-080121	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-12 12:17	METHOD	2021-08-12 12:17	SM 2320B	55.8	40	96	1.8	5	mg/L	100	1	80	120	20
10572927	763057_10572927	SWWW0185-080121MS	4068285	SWWW0185-080121	MS	INITIAL	ALK_CaCO3	T	1	2021-08-12 12:13	METHOD	2021-08-12 12:13	SM 2320B	55.8	40	94.8	1.8	5	mg/L	97	0	80	120	0
10572927	763057_10572927	SWWW0177-080121MS	4068283	SWWW0177-080121	MS	INITIAL	ALK_CaCO3	T	1	2021-08-12 11:35	METHOD	2021-08-12 11:35	SM 2320B	103	40	143	1.8	5	mg/L	100	0	80	120	0
10572927	763057_10572927	SWWW0177-080121MSD	4068284	SWWW0177-080121	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-12 11:41	METHOD	2021-08-12 11:41	SM 2320B	103	40	142	1.8	5	mg/L	98	1	80	120	20
10572927	763058_10572927	SWWW0204-080121MS	4068293	SWWW0204-080121	MS	INITIAL	ALK_CaCO3	T	1	2021-08-12 02:59	METHOD	2021-08-12 02:59	SM 2320B	109	40	148	1.8	5	mg/L	99	0	80	120	0
10572927	763058_10572927	SWWW0216-080121MS	4068295	SWWW0216-080121	MS	INITIAL	ALK_CaCO3	T	1	2021-08-12 04:25	METHOD	2021-08-12 04:25	SM 2320B	52.1	40	91.4	1.8	5	mg/L	98	0	80	120	0
10572927	763058_10572927	SWWW0216-080121MSD	4068296	SWWW0216-080121	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-12 04:29	METHOD	2021-08-12 04:29	SM 2320B	52.1	40	91.4	1.8	5	mg/L	98	0	80	120	20
10572927	763058_10572927	SWWW0204-080121MSD	4068294	SWWW0204-080121	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-12 03:04	METHOD	2021-08-12 03:04	SM 2320B	109	40	149	1.8	5	mg/L	100	0	80	120	20
10572927	763058_10572927	4068290BLANK_10572927	4068290		MB	INITIAL	ALK_CaCO3	T	1	2021-08-12 02:18	METHOD	2021-08-12 02:18	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10572927	763058_10572927	4068291LCS_10572927	4068291		LCS	INITIAL	ALK_CaCO3	T	1	2021-08-12 02:22	METHOD	2021-08-12 02:22	SM 2320B	0	40	43	1.8	5	mg/L	107	0	90	110	0
10572927	763058_10572927	4068292LCSD_10572927	4068292	4068291LCS_10572927	LCSD	INITIAL	ALK_CaCO3	T	1	2021-08-12 02:25	METHOD	2021-08-12 02:25	SM 2320B	0	40	42.2	1.8	5	mg/L	105	2	90	110	20
10572927	763364_10572927	4069689BLANK_10572927	4069689		MB	INITIAL	ALK_CaCO3	T	1	2021-08-13 10:44	METHOD	2021-08-13 10:44	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10572927	763364_10572927	4069690LCS_10572927	4069690		LCS	INITIAL	ALK_CaCO3	T	1	2021-08-13 10:47	METHOD	2021-08-13 10:47	SM 2320B	0	40	42.1	1.8	5	mg/L	105	0	90	110	0
10572927	763364_10572927	4069691LCSD_10572927	4069691	4069690LCS_10572927	LCSD	INITIAL	ALK_CaCO3	T	1	2021-08-13 10:50	METHOD	2021-08-13 10:50	SM 2320B	0	40	42	1.8	5	mg/L	105	0	90	110	20
10572927	761404_10572927	SWWW0177-080121MS	4059737	SWWW0177-080121	MS	INITIAL	AlTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 01:30	EPA 200.8	0.2	2	1.9	0.04	0.1	mg/L	85	0	70	130	0
10572927	761404_10572927	4059735BLANK_10572927	4059735		MB	INITIAL	AlTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:18	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10572927	761404_10572927	4059736LCS_10572927	4059736		LCS	INITIAL	AlTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:21	EPA 200.8	0	2	2	0.008	0.02	mg/L	98	0	85	115	0
10572927	761404_10572927	SWWW0185-080121MS	4059738	SWWW0185-080121	MS	INITIAL	AlTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:13	EPA 200.8	0.0066	2	1.7	0.04	0.1	mg/L	84	0	70	130	0
10572927	761404_10572927	SWWW0185-080121MSD	4059739	SWWW0185-080121	MSD	INITIAL	AlTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:16	EPA 200.8	0.0066	2	1.7	0.04	0.1	mg/L	87	3	70	130	20
10572927	761405_10572927	SWWW0204-080121MSD	4059758	SWWW0204-080121	MSD	INITIAL	AlTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:38	EPA 200.8	0.027	2	1.7	0.04	0.1	mg/L	83	1	70	130	20
10572927	761405_10572927	SWWW0204-080121MS	4059757	SWWW0204-080121	MS	INITIAL	AlTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:35	EPA 200.8	0.027	2	1.7	0.04	0.1	mg/L	84	0	70	130	0
10572927	761405_10572927	SWWW0197-080121MS	4059756	SWWW0197-080121	MS	INITIAL	AlTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 10:25	EPA 200.8	3.6	2	5.2	0.04	0.1	mg/L	84	0	70	130	0
10572927	761405_10572927	4059754BLANK_10572927	4059754		MB	INITIAL	AlTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:13	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10572927	761405_10572927	4059755LCS_10572927	4059755		LCS	INITIAL	AlTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:16	EPA 200.8	0	2	1.9	0.008	0.02	mg/L	93	0	85	115	0
10572927	761406_10572927	4059762LCS_10572927	4059762		LCS	INITIAL	AlTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:57	EPA 200.8	0	2	2.2	0.008	0.02	mg/L	108	0	85	115	0
10572927	761406_10572927	4059761BLANK_10572927	4059761		MB	INITIAL	AlTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:54	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10572927	761406_10572927	SWWW0217-080121MS	4059763	SWWW0217-080121	MS	INITIAL	AlTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:24	EPA 200.8	1	2	2.8	0.04	0.1	mg/L	87	0	70	130	0
10572927	761406_10572927	SWWW0217-080121MSD	4059764	SWWW0217-080121	MSD	INITIAL	AlTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:27	EPA 200.8	1	2	2.9	0.04	0.1	mg/L	91	3	70	130	20
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:23	EPA 200.8	0.0044	0.1	0.11	0.000083	0.0005	mg/L	104	2	70	130	20
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:20	EPA 200.8	0.0044	0.1	0.11	0.000083	0.0005	mg/L	102	0	70	130	0
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	0.0022	0.1	0.11	0.000083	0.0005	mg/L	103	0	70	130	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	0.1	0.099	0.000083	0.0005	mg/L	99	0	85	115	0
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	100	0	85	115	0
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	0.0037	0.1	0.11	0.000083	0.0005	mg/L	103	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	0.0022	0.1	0.1	0.000083	0.0005	mg/L	102	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	AsDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	0.0022	0.1	0.1	0.000083	0.0005	mg/L	103	1	70	130	20
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	AsDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	0.0036	0.1	0.11	0.000083	0.0005	mg/L	105	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	AsDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	0.0036	0.1	0.1	0.000083	0.0005	mg/L	101	4	70	130	20
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	AsDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	AsDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	103	0	85	115	0
10572927	761404_10572927	4059735BLANK_10572927	4059735		MB	INITIAL	AsTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:18	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10572927	761404_10572927	4059736LCS_10572927	4059736		LCS	INITIAL	AsTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:21	EPA 200.8	0	0.1	0.097	0.000083	0.0005	mg/L	97	0	85	115	0
10572927	761404_10572927	SWWW0177-080121MS	4059737	SWWW0177-080121	MS	INITIAL	AsTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 01:30	EPA 200.8	0.0027	0.1	0.092	0.00041	0.0025	mg/L	90	0	70	130	0
10572927	761404_10572927	SWWW0185-080121MS	4059738	SWWW0185-080121	MS	INITIAL	AsTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:13	EPA 200.8	0.0041	0.1	0.096	0.00041	0.0025	mg/L	92	0	70	130	0
10572927	761404_10572927	SWWW0185-080121MSD	4059739	SWWW0185-080121	MSD	INITIAL	AsTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:16	EPA 200.8	0.0041	0.1	0.099	0.00041	0.0025	mg/L	95	3	70	130	20
10572927	761405_10572927	SWWW0204-080121MS	4059757	SWWW0204-080121	MS	INITIAL	AsTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:35	EPA 200.8	0.0021	0.1	0.086	0.00041	0.0025	mg/L	84	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MSD	4059758	SWWW0204-080121	MSD	INITIAL	AsTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:38	EPA 200.8	0.0021	0.1	0.085	0.00041	0.0025	mg/L	82	1	70	130	20
10572927	761405_10572927	SWWW0197-080121MS	4059756	SWWW0197-080121	MS	INITIAL	AsTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 10:25	EPA 200.8	0.0087	0.1	0.094	0.00041	0.0025	mg/L	86	0	70	130	0
10572927	761405_10572927	4059755LCS_10572927	4059755		LCS	INITIAL	AsTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:16	EPA 200.8	0	0.1	0.092	0.000083	0.0005	mg/L	92	0	85	115	0
10572927	761405_10572927	4059754BLANK_10572927	4059754		MB	INITIAL	AsTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:13	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10572927	761406_10572927	4059762LCS_10572927	4059762		LCS	REANALYSIS	AsTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-11 12:05	EPA 200.8	0	0.1	0.096	0.000083	0.0005	mg/L	96	0	85	115	0
10572927	761406_10572927	4059761BLANK_10572927	4059761		MB	REANALYSIS	AsTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-11 12:02	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10572927	761406_10572927	SWWW0217-080121MS	4059763	SWWW0217-080121	MS	REANALYSIS	AsTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-11 12:17	EPA 200.8	0.006	0.1	0.084	0.00041	0.0025	mg/L	78	0	70	130	0
10572927	761406_10572927	SWWW0217-080121MSD	4059764	SWWW0217-080121	MSD	REANALYSIS	AsTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-11 12:20	EPA 200.8	0.006	0.1	0.09	0.00041	0.0025	mg/L	84	7	70	130	20
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:23	EPA 200.8	216	2	222	0.018	0.04	mg/L	262	2	70	130	20
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:20	EPA 200.8	216	2	217	0.018	0.04	mg/L	25	0	70	130	0
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	33.3	2	37.5	0.018	0.04	mg/L	209	0	70	130	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	2	2.1	0.018	0.04	mg/L	103	0	85	115	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	2	2.2	0.018	0.04	mg/L	109	0	85	115	0
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	28.3	2	30.6	0.018	0.04	mg/L	111	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	37.9	2	41.9	0.018	0.04	mg/L	202	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	CaDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	37.9	2	42.5	0.018	0.04	mg/L	231	1	70	130	20
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	CaDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	126	2	143	0.018	0.04	mg/L	868	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	CaDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	126	2	137	0.018	0.04	mg/L	580	4	70	130	20
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	CaDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	2	2.2	0.018	0.04	mg/L	108	0	85	115	0
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	CaDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	0.000038	0.1	0.11	0.000016	0.00008	mg/L	107	0	70	130	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	104	0	85	115	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:20	EPA 200.8	0.0002	0.1	0.1	0.000016	0.00008	mg/L	103	0	70	130	0
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:23	EPA 200.8	0.0002	0.1	0.11	0.000016	0.00008	mg/L	105	2	70	130	20
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	0.000024	0.1	0.11	0.000016	0.00008	mg/L	107	0	70	130	0
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	0.000063	0.1	0.11	0.000016	0.00008	mg/L	109	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	0.000024	0.1	0.11	0.000016	0.00008	mg/L	106	1	70	130	20
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	107	0	85	115	0
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	CdDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	CdDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	CdDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	106	0	85	115	0
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	CdDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	0.00026	0.1	0.11	0.000016	0.00008	mg/L	105	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	CdDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	0.00026	0.1	0.1	0.000016	0.00008	mg/L	100	5	70	130	20
10572927	761404_10572927	SWWW0185-080121MSD	4059739	SWWW0185-080121	MSD	INITIAL	CdTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:16	EPA 200.8	0.0002	0.1	0.082	0.00008	0.0004	mg/L	81	2	70	130	20
10572927	761404_10572927	SWWW0185-080121MS	4059738	SWWW0185-080121	MS	INITIAL	CdTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:13	EPA 200.8	0.0002	0.1	0.08	0.00008	0.0004	mg/L	80	0	70	130	0
10572927	761404_10572927	4059735BLANK_10572927	4059735		MB	INITIAL	CdTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:18	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10572927	761404_10572927	4059736LCS_10572927	4059736		LCS	INITIAL	CdTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:21	EPA 200.8	0	0.1	0.092	0.000016	0.00008	mg/L	92	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10572927	761404_10572927	SWWW0177-080121MS	4059737	SWWW0177-080121	MS	INITIAL	CdTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 01:30	EPA 200.8	0.000049	0.1	0.087	0.00008	0.0004	mg/L	87	0	70	130	0
10572927	761405_10572927	4059754BLANK_10572927	4059754		MB	INITIAL	CdTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:13	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10572927	761405_10572927	4059755LCS_10572927	4059755		LCS	INITIAL	CdTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:16	EPA 200.8	0	0.1	0.091	0.000016	0.00008	mg/L	91	0	85	115	0
10572927	761405_10572927	SWWW0197-080121MS	4059756	SWWW0197-080121	MS	INITIAL	CdTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 10:25	EPA 200.8	0.0002	0.1	0.087	0.00008	0.0004	mg/L	87	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MS	4059757	SWWW0204-080121	MS	INITIAL	CdTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:35	EPA 200.8	0.000045	0.1	0.084	0.00008	0.0004	mg/L	84	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MSD	4059758	SWWW0204-080121	MSD	INITIAL	CdTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:38	EPA 200.8	0.000045	0.1	0.081	0.00008	0.0004	mg/L	81	4	70	130	20
10572927	761406_10572927	SWWW0217-080121MSD	4059764	SWWW0217-080121	MSD	INITIAL	CdTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:27	EPA 200.8	0.00046	0.1	0.086	0.00008	0.0004	mg/L	85	1	70	130	20
10572927	761406_10572927	SWWW0217-080121MS	4059763	SWWW0217-080121	MS	INITIAL	CdTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:24	EPA 200.8	0.00046	0.1	0.087	0.00008	0.0004	mg/L	86	0	70	130	0
10572927	761406_10572927	4059761BLANK_10572927	4059761		MB	INITIAL	CdTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:54	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10572927	761406_10572927	4059762LCS_10572927	4059762		LCS	INITIAL	CdTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:57	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	100	0	85	115	0
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	0.0046	0.1	0.11	0.0005	0.001	mg/L	102	0	70	130	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	102	0	85	115	0
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:20	EPA 200.8	0.0052	0.1	0.1	0.0005	0.001	mg/L	99	0	70	130	0
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:23	EPA 200.8	0.0052	0.1	0.11	0.0005	0.001	mg/L	101	1	70	130	20
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	0.0028	0.1	0.11	0.0005	0.001	mg/L	105	0	70	130	0
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	0.013	0.1	0.12	0.0005	0.001	mg/L	104	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	0.0028	0.1	0.11	0.0005	0.001	mg/L	104	1	70	130	20
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	104	0	85	115	0
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	CuDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	CuDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	CuDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	107	0	85	115	0
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	CuDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	0.007	0.1	0.11	0.0005	0.001	mg/L	104	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	CuDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	0.007	0.1	0.11	0.0005	0.001	mg/L	100	4	70	130	20
10572927	761404_10572927	SWWW0185-080121MSD	4059739	SWWW0185-080121	MSD	INITIAL	CuTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:16	EPA 200.8	0.0043	0.1	0.088	0.0025	0.005	mg/L	84	4	70	130	20
10572927	761404_10572927	SWWW0185-080121MS	4059738	SWWW0185-080121	MS	INITIAL	CuTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:13	EPA 200.8	0.0043	0.1	0.085	0.0025	0.005	mg/L	81	0	70	130	0
10572927	761404_10572927	4059735BLANK_10572927	4059735		MB	INITIAL	CuTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:18	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10572927	761404_10572927	4059736LCS_10572927	4059736		LCS	INITIAL	CuTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:21	EPA 200.8	0	0.1	0.091	0.0005	0.001	mg/L	91	0	85	115	0
10572927	761404_10572927	SWWW0177-080121MS	4059737	SWWW0177-080121	MS	INITIAL	CuTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 01:30	EPA 200.8	0.0076	0.1	0.094	0.0025	0.005	mg/L	86	0	70	130	0
10572927	761405_10572927	4059754BLANK_10572927	4059754		MB	INITIAL	CuTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:13	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10572927	761405_10572927	4059755LCS_10572927	4059755		LCS	INITIAL	CuTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:16	EPA 200.8	0	0.1	0.092	0.0005	0.001	mg/L	92	0	85	115	0
10572927	761405_10572927	SWWW0197-080121MS	4059756	SWWW0197-080121	MS	INITIAL	CuTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 10:25	EPA 200.8	0.053	0.1	0.14	0.0025	0.005	mg/L	85	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MS	4059757	SWWW0204-080121	MS	INITIAL	CuTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:35	EPA 200.8	0.0037	0.1	0.089	0.0025	0.005	mg/L	86	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MSD	4059758	SWWW0204-080121	MSD	INITIAL	CuTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:38	EPA 200.8	0.0037	0.1	0.087	0.0025	0.005	mg/L	83	2	70	130	20
10572927	761406_10572927	SWWW0217-080121MSD	4059764	SWWW0217-080121	MSD	INITIAL	CuTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:27	EPA 200.8	0.029	0.1	0.11	0.0025	0.005	mg/L	83	1	70	130	20
10572927	761406_10572927	SWWW0217-080121MS	4059763	SWWW0217-080121	MS	INITIAL	CuTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:24	EPA 200.8	0.029	0.1	0.11	0.0025	0.005	mg/L	82	0	70	130	0
10572927	761406_10572927	4059761BLANK_10572927	4059761		MB	INITIAL	CuTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:54	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10572927	761406_10572927	4059762LCS_10572927	4059762		LCS	INITIAL	CuTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:57	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	100	0	85	115	0
10572927	737476_10572927	2956980BLANK_10572927	2956980		MB	INITIAL	DOC	D	1	2021-08-11 06:55	METHOD	2021-08-11 06:55	SM 5310C	0	0	0.3	0.3	1	mg/L	0	0	0	0	0
10572927	737476_10572927	2956981LCS_10572927	2956981		LCS	INITIAL	DOC	D	1	2021-08-11 07:10	METHOD	2021-08-11 07:10	SM 5310C	0	5	5.4	0.3	1	mg/L	107	0	80	120	0
10572927	737476_10572927	SWWW0180-080121DUP	2956982	SWWW0180-080121	LR	INITIAL	DOC	D	5	2021-08-11 07:39	METHOD	2021-08-11 07:39	SM 5310C	36.9	0	37.2	1.5	5	mg/L	0	1	0	0	25
10572927	737476_10572927	SWWW0180-080121MS	2956983	SWWW0180-080121	MS	INITIAL	DOC	D	5	2021-08-11 07:53	METHOD	2021-08-11 07:53	SM 5310C	36.9	25	68.2	1.5	5	mg/L	125	0	80	120	0
10572927	737476_10572927	SWWW0180-080121MSD	2956984	SWWW0180-080121	MSD	INITIAL	DOC	D	5	2021-08-11 08:08	METHOD	2021-08-11 08:08	SM 5310C	36.9	25	68.5	1.5	5	mg/L	127	0	80	120	25
10572927	738148_10572927	SWWW0185-080121DUP	2959457	SWWW0185-080121	LR	INITIAL	DOC	D	1	2021-08-16 01:26	METHOD	2021-08-16 01:26	SM 5310C	3.8	0	3.9	0.3	1	mg/L	0	1	0	0	25
10572927	738148_10572927	SWWW0185-080121MS	2959458	SWWW0185-080121	MS	INITIAL	DOC	D	1	2021-08-16 01:40	METHOD	2021-08-16 01:40	SM 5310C	3.8	5	9.3	0.3	1	mg/L	110	0	80	120	0
10572927	738148_10572927	SWWW0185-080121MSD	2959459	SWWW0185-080121	MSD	INITIAL	DOC	D	1	2021-08-16 01:53	METHOD	2021-08-16 01:53	SM 5310C	3.8	5	9.4	0.3	1	mg/L	110	0	80	120	25
10572927	738148_10572927	2959455BLANK_10572927	2959455		MB	INITIAL	DOC	D	1	2021-08-16 12:07	METHOD	2021-08-16 12:07	SM 5310C	0	0	0.3	0.3	1	mg/L	0	0	0	0	0
10572927	738148_10572927	2959456LCS_10572927	2959456		LCS	INITIAL	DOC	D	1	2021-08-16 07:25	METHOD	2021-08-16 07:25	SM 5310C	0	5	5	0.3	1	mg/L	101	0	80	120	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	105	0	85	115	0
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:20	EPA 200.8	0.0089	2	2.1	0.012	0.05	mg/L	107	0	70	130	0
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:23	EPA 200.8	0.0089	2	2.1	0.012	0.05	mg/L	103	4	70	130	20

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	0.038	2	2.2	0.012	0.05	mg/L	106	0	70	130	0
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	0.06	2	2.1	0.012	0.05	mg/L	104	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	0.032	2	2.1	0.012	0.05	mg/L	104	0	70	130	20
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	0.032	2	2.1	0.012	0.05	mg/L	104	0	70	130	0
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	FeDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	FeDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	FeDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	2	2	0.012	0.05	mg/L	101	0	85	115	0
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	FeDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	0.014	2	2.1	0.012	0.05	mg/L	102	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	FeDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	0.014	2	2	0.012	0.05	mg/L	98	4	70	130	20
10572927	761404_10572927	SWWW0177-080121MS	4059737	SWWW0177-080121	MS	INITIAL	FeTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 01:30	EPA 200.8	0.33	2	2.1	0.06	0.25	mg/L	86	0	70	130	0
10572927	761404_10572927	SWWW0185-080121MSD	4059739	SWWW0185-080121	MSD	INITIAL	FeTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:16	EPA 200.8	0.0065	2	1.8	0.06	0.25	mg/L	92	4	70	130	20
10572927	761404_10572927	SWWW0185-080121MS	4059738	SWWW0185-080121	MS	INITIAL	FeTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:13	EPA 200.8	0.0065	2	1.8	0.06	0.25	mg/L	88	0	70	130	0
10572927	761404_10572927	4059735BLANK_10572927	4059735		MB	INITIAL	FeTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:18	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10572927	761404_10572927	4059736LCS_10572927	4059736		LCS	INITIAL	FeTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:21	EPA 200.8	0	2	1.8	0.012	0.05	mg/L	91	0	85	115	0
10572927	761405_10572927	4059755LCS_10572927	4059755		LCS	INITIAL	FeTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:16	EPA 200.8	0	2	1.9	0.012	0.05	mg/L	93	0	85	115	0
10572927	761405_10572927	4059754BLANK_10572927	4059754		MB	INITIAL	FeTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:13	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10572927	761405_10572927	SWWW0204-080121MS	4059757	SWWW0204-080121	MS	INITIAL	FeTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:35	EPA 200.8	0.17	2	1.9	0.06	0.25	mg/L	87	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MSD	4059758	SWWW0204-080121	MSD	INITIAL	FeTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:38	EPA 200.8	0.17	2	1.8	0.06	0.25	mg/L	83	4	70	130	20
10572927	761405_10572927	SWWW0197-080121MS	4059756	SWWW0197-080121	MS	INITIAL	FeTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 10:25	EPA 200.8	3.5	2	5	0.06	0.25	mg/L	76	0	70	130	0
10572927	761406_10572927	SWWW0217-080121MSD	4059764	SWWW0217-080121	MSD	REANALYSIS	FeTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-11 12:20	EPA 200.8	1.2	2	2.7	0.06	0.25	mg/L	75	7	70	130	20
10572927	761406_10572927	SWWW0217-080121MS	4059763	SWWW0217-080121	MS	REANALYSIS	FeTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-11 12:17	EPA 200.8	1.2	2	2.5	0.06	0.25	mg/L	66	0	70	130	0
10572927	761406_10572927	4059761BLANK_10572927	4059761		MB	REANALYSIS	FeTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-11 12:02	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10572927	761406_10572927	4059762LCS_10572927	4059762		LCS	REANALYSIS	FeTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-11 12:05	EPA 200.8	0	2	1.9	0.012	0.05	mg/L	97	0	85	115	0
10572927	761414_10572927	4059821BLANK_10572927	4059821		MB	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 12:46	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10572927	761414_10572927	4059822LCS_10572927	4059822		LCS	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 12:47	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	85	115	0
10572927	761414_10572927	SWWW0185-080121MS	4059824	SWWW0185-080121	MS	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 01:06	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	108	0	70	130	0
10572927	761414_10572927	SWWW0185-080121MSD	4059825	SWWW0185-080121	MSD	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 01:08	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	2	70	130	20
10572927	761414_10572927	SWWW0178-080121MS	4059823	SWWW0178-080121	MS	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 12:52	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	108	0	70	130	0
10572927	761415_10572927	SWWW0198-080121MS	4059832	SWWW0198-080121	MS	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 01:38	EPA 245.1	0.000011	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
10572927	761415_10572927	SWWW0204-080121MS	4059833	SWWW0204-080121	MS	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 01:51	EPA 245.1	0.000012	0.005	0.0055	0.000045	0.0002	mg/L	109	0	70	130	0
10572927	761415_10572927	SWWW0204-080121MSD	4059834	SWWW0204-080121	MSD	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 01:53	EPA 245.1	0.000012	0.005	0.0054	0.000045	0.0002	mg/L	107	2	70	130	20
10572927	761415_10572927	4059830BLANK_10572927	4059830		MB	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 01:32	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10572927	761415_10572927	4059831LCS_10572927	4059831		LCS	INITIAL	HgDis	D	1	2021-08-06 05:35	EPA 245.1	2021-08-09 01:34	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	85	115	0
10572927	761417_10572927	4059847BLANK_10572927	4059847		MB	INITIAL	HgDis	D	1	2021-08-06 11:23	EPA 245.1	2021-08-09 05:19	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10572927	761417_10572927	4059848LCS_10572927	4059848		LCS	INITIAL	HgDis	D	1	2021-08-06 11:23	EPA 245.1	2021-08-09 05:20	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	85	115	0
10572927	761417_10572927	SWWW0218-080121MS	4059849	SWWW0218-080121	MS	INITIAL	HgDis	D	1	2021-08-06 11:23	EPA 245.1	2021-08-09 05:25	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	70	130	0
10572927	761417_10572927	SWWW0218-080121MSD	4059850	SWWW0218-080121	MSD	INITIAL	HgDis	D	1	2021-08-06 11:23	EPA 245.1	2021-08-09 05:26	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	101	1	70	130	20
10572927	761563_10572927	SWWW0194-080121MS	4060388	SWWW0194-080121	MS	INITIAL	HgTR	T	1	2021-08-06 05:53	EPA 245.1	2021-08-09 03:12	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
10572927	761563_10572927	SWWW0185-080121MSD	4060387	SWWW0185-080121	MSD	INITIAL	HgTR	T	1	2021-08-06 05:53	EPA 245.1	2021-08-09 02:55	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	1	70	130	20
10572927	761563_10572927	SWWW0185-080121MS	4060386	SWWW0185-080121	MS	INITIAL	HgTR	T	1	2021-08-06 05:53	EPA 245.1	2021-08-09 02:54	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	105	0	70	130	0
10572927	761563_10572927	4060384BLANK_10572927	4060384		MB	INITIAL	HgTR	T	1	2021-08-06 05:53	EPA 245.1	2021-08-09 02:35	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10572927	761563_10572927	4060385LCS_10572927	4060385		LCS	INITIAL	HgTR	T	1	2021-08-06 05:53	EPA 245.1	2021-08-09 02:36	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
10572927	761565_10572927	4060391BLANK_10572927	4060391		MB	INITIAL	HgTR	T	1	2021-08-06 05:53	EPA 245.1	2021-08-09 03:21	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10572927	761565_10572927	4060392LCS_10572927	4060392		LCS	INITIAL	HgTR	T	1	2021-08-06 05:53	EPA 245.1	2021-08-09 03:23	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
10572927	761565_10572927	SWWW0204-080121MS	4060393	SWWW0204-080121	MS	INITIAL	HgTR	T	1	2021-08-06 05:53	EPA 245.1	2021-08-09 03:39	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
10572927	761565_10572927	SWWW0204-080121MSD	4060394	SWWW0204-080121	MSD	INITIAL	HgTR	T	1	2021-08-06 05:53	EPA 245.1	2021-08-09 03:40	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	105	1	70	130	20
10572927	761567_10572927	SWWW0218-080121MS	4060399	SWWW0218-080121	MS	INITIAL	HgTR	T	1	2021-08-06 01:44	EPA 245.1	2021-08-09 04:13	EPA 245.1	0.00025	0.005	0.0054	0.000045	0.0002	mg/L	104	0	70	130	0
10572927	761567_10572927	SWWW0218-080121MSD	4060400	SWWW0218-080121	MSD	INITIAL	HgTR	T	1	2021-08-06 01:44	EPA 245.1	2021-08-09 04:15	EPA 245.1	0.00025	0.005	0.0054	0.000045	0.0002	mg/L	102	1	70	130	20
10572927	761567_10572927	4060397BLANK_10572927	4060397		MB	INITIAL	HgTR	T	1	2021-08-06 01:44	EPA 245.1	2021-08-09 04:08	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10572927	761567_10572927	4060398LCS_10572927	4060398		LCS	INITIAL	HgTR	T	1	2021-08-06 01:44	EPA 245.1	2021-08-09 04:09	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	85	115	0
10572927	762264_10572927	4064119BLANK_10572927	4064119		MB	INITIAL	HgTR	T	1	2021-08-11 09:26	EPA 245.1	2021-08-18 11:20	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10572927	762264_10572927	4064120LCS_10572927	4064120		LCS	INITIAL	HgTR	T	1	2021-08-11 09:26	EPA 245.1	2021-08-18 11:21	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	108	0	85	115	0
10572927	762264_10572927	SWWW0207-080121MS	4064121	SWWW0207-080121	MS	INITIAL	HgTR	T	1	2021-08-11 09:26	EPA 245.1	2021-08-18 11:24	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
10572927	762264_10572927	SWWW0207-080121MSD	4064122	SWWW0207-080121	MSD	INITIAL	HgTR	T	1	2021-08-11 09:26	EPA 245.1	2021-08-18 11:25	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	3	70	130	20
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	REANALYSIS	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-18 01:30	EPA 200.8	8.7	2	10.7	0.0034	0.01	mg/L	103	0	70	130	0
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	REANALYSIS	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-18 01:33	EPA 200.8	8.7	2	11.2	0.0034	0.01	mg/L	126	4	70	130	20
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	8.4	2	11	0.0034	0.01	mg/L	128	0	70	130	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	2	2	0.0034	0.01	mg/L	102	0	85	115	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.0037	0.0034	0.01	mg/L	0	0	0	0	0
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.0034	0.0034	0.01	mg/L	0	0	0	0	0
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	2	2.2	0.0034	0.01	mg/L	110	0	85	115	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	10.3	2	12.8	0.0034	0.01	mg/L	129	3	70	130	20
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	10.3	2	12.4	0.0034	0.01	mg/L	109	0	70	130	0
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	MgDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	8.3	2	10.4	0.0034	0.01	mg/L	107	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	MgDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	9	2	11.3	0.0034	0.01	mg/L	116	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	MgDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	9	2	10.9	0.0034	0.01	mg/L	92	4	70	130	20
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	MgDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.0034	0.0034	0.01	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	MgDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	2	2.1	0.0034	0.01	mg/L	105	0	85	115	0
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	0.0045	0.1	0.11	0.000094	0.0005	mg/L	104	0	70	130	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	100	0	85	115	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:23	EPA 200.8	0.31	0.1	0.43	0.000094	0.0005	mg/L	122	3	70	130	20
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:20	EPA 200.8	0.31	0.1	0.42	0.000094	0.0005	mg/L	110	0	70	130	0
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	0.0043	0.1	0.11	0.000094	0.0005	mg/L	108	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	0.0064	0.1	0.11	0.000094	0.0005	mg/L	107	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	0.0064	0.1	0.11	0.000094	0.0005	mg/L	106	2	70	130	20
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	MoDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	105	0	85	115	0
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	MoDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	MoDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	104	0	85	115	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	MoDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	0.18	0.1	0.28	0.000094	0.0005	mg/L	99	3	70	130	20
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	MoDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	0.18	0.1	0.29	0.000094	0.0005	mg/L	109	0	70	130	0
10572927	761404_10572927	SWWW0185-080121MS	4059738	SWWW0185-080121	MS	INITIAL	MoTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:13	EPA 200.8	0.29	0.1	0.35	0.00047	0.0025	mg/L	59	0	70	130	0
10572927	761404_10572927	SWWW0185-080121MSD	4059739	SWWW0185-080121	MSD	INITIAL	MoTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:16	EPA 200.8	0.29	0.1	0.37	0.00047	0.0025	mg/L	77	5	70	130	20
10572927	761404_10572927	4059736LCS_10572927	4059736		LCS	INITIAL	MoTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:21	EPA 200.8	0	0.1	0.094	0.000094	0.0005	mg/L	94	0	85	115	0
10572927	761404_10572927	4059735BLANK_10572927	4059735		MB	INITIAL	MoTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:18	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10572927	761404_10572927	SWWW0177-080121MS	4059737	SWWW0177-080121	MS	INITIAL	MoTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 01:30	EPA 200.8	0.0046	0.1	0.091	0.00047	0.0025	mg/L	86	0	70	130	0
10572927	761405_10572927	4059754BLANK_10572927	4059754		MB	INITIAL	MoTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:13	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10572927	761405_10572927	4059755LCS_10572927	4059755		LCS	INITIAL	MoTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:16	EPA 200.8	0	0.1	0.091	0.000094	0.0005	mg/L	91	0	85	115	0
10572927	761405_10572927	SWWW0204-080121MSD	4059758	SWWW0204-080121	MSD	INITIAL	MoTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:38	EPA 200.8	0.0058	0.1	0.087	0.00047	0.0025	mg/L	81	3	70	130	20
10572927	761405_10572927	SWWW0204-080121MS	4059757	SWWW0204-080121	MS	INITIAL	MoTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:35	EPA 200.8	0.0058	0.1	0.089	0.00047	0.0025	mg/L	84	0	70	130	0
10572927	761405_10572927	SWWW0197-080121MS	4059756	SWWW0197-080121	MS	INITIAL	MoTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 10:25	EPA 200.8	0.0052	0.1	0.091	0.00047	0.0025	mg/L	86	0	70	130	0
10572927	761406_10572927	SWWW0217-080121MS	4059763	SWWW0217-080121	MS	INITIAL	MoTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:24	EPA 200.8	0.18	0.1	0.24	0.00047	0.0025	mg/L	62	0	70	130	0
10572927	761406_10572927	SWWW0217-080121MSD	4059764	SWWW0217-080121	MSD	INITIAL	MoTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:27	EPA 200.8	0.18	0.1	0.24	0.00047	0.0025	mg/L	63	1	70	130	20
10572927	761406_10572927	4059761BLANK_10572927	4059761		MB	INITIAL	MoTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:54	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10572927	761406_10572927	4059762LCS_10572927	4059762		LCS	INITIAL	MoTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:57	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	103	0	85	115	0
10572927	762149_10572927	4063534BLANK_10572927	4063534		MB	INITIAL	NH3-N	T	1	2021-08-09 03:01	METHOD	2021-08-09 03:01	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10572927	762149_10572927	4063535LCS_10572927	4063535		LCS	INITIAL	NH3-N	T	1	2021-08-09 03:02	METHOD	2021-08-09 03:02	EPA 350.1	0	2.5	2.4	0.03	0.1	mg/L	98	0	90	110	0
10572927	762149_10572927	SWWW0177-080121MSD	4063539	SWWW0177-080121	MSD	INITIAL	NH3-N	T	1	2021-08-09 03:33	METHOD	2021-08-09 03:33	EPA 350.1	0.0027	2.5	2.7	0.03	0.1	mg/L	107	6	90	110	20
10572927	762149_10572927	SWWW0177-080121MS	4063538	SWWW0177-080121	MS	INITIAL	NH3-N	T	1	2021-08-09 03:32	METHOD	2021-08-09 03:32	EPA 350.1	0.0027	2.5	2.5	0.03	0.1	mg/L	100	0	90	110	0
10572927	763544_10572927	SWWW0184-080121MS	4071296	SWWW0184-080121	MS	INITIAL	NH3-N	T	1	2021-08-15 12:58	METHOD	2021-08-15 12:58	EPA 350.1	0.016	2.5	2.5	0.03	0.1	mg/L	100	0	90	110	0
10572927	763544_10572927	SWWW0184-080121MSD	4071297	SWWW0184-080121	MSD	INITIAL	NH3-N	T	1	2021-08-15 12:59	METHOD	2021-08-15 12:59	EPA 350.1	0.016	2.5	2.4	0.03	0.1	mg/L	96	4	90	110	20
10572927	763544_10572927	SWWW0185-080121MSD	4071299	SWWW0185-080121	MSD	INITIAL	NH3-N	T	1	2021-08-15 01:03	METHOD	2021-08-15 01:03	EPA 350.1	0.037	2.5	2.5	0.03	0.1	mg/L	98	0	90	110	20

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10572927	763544_10572927	SWWW0185-080121MS	4071298	SWWW0185-080121	MS	INITIAL	NH3-N	T	1	2021-08-15 01:02	METHOD	2021-08-15 01:02	EPA 350.1	0.037	2.5	2.5	0.03	0.1	mg/L	98	0	90	110	0
10572927	763544_10572927	4071294BLANK_10572927	4071294		MB	INITIAL	NH3-N	T	1	2021-08-15 12:53	METHOD	2021-08-15 12:53	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10572927	763544_10572927	4071295LCS_10572927	4071295		LCS	INITIAL	NH3-N	T	1	2021-08-15 12:55	METHOD	2021-08-15 12:55	EPA 350.1	0	2.5	2.5	0.03	0.1	mg/L	99	0	90	110	0
10572927	763545_10572927	4071300BLANK_10572927	4071300		MB	INITIAL	NH3-N	T	1	2021-08-15 01:36	METHOD	2021-08-15 01:36	EPA 350.1	0	0	0.03	0.03	0.1	mg/L	0	0	0	0	0
10572927	763545_10572927	4071301LCS_10572927	4071301		LCS	INITIAL	NH3-N	T	1	2021-08-15 01:38	METHOD	2021-08-15 01:38	EPA 350.1	0	2.5	2.5	0.03	0.1	mg/L	98	0	90	110	0
10572927	761838_10572927	4061640BLANK_10572927	4061640		MB	INITIAL	NO3/NO2-N	T	1	2021-08-06 01:33	METHOD	2021-08-06 01:33	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10572927	761838_10572927	4061641LCS_10572927	4061641		LCS	INITIAL	NO3/NO2-N	T	1	2021-08-06 01:34	METHOD	2021-08-06 01:34	SM 4500-NO3-H	0	2.5	2.3	0.078	0.2	mg/L	93	0	90	110	0
10572927	761838_10572927	SWWW0185-080121MS	4061644	SWWW0185-080121	MS	INITIAL	NO3/NO2-N	T	1	2021-08-06 01:52	METHOD	2021-08-06 01:52	SM 4500-NO3-H	0.78	2.5	2.9	0.078	0.2	mg/L	85	0	80	120	0
10572927	761838_10572927	SWWW0177-080121MSD	4061643	SWWW0177-080121	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-06 01:38	METHOD	2021-08-06 01:38	SM 4500-NO3-H	1.1	2.5	3.3	0.078	0.2	mg/L	91	1	80	120	20
10572927	761838_10572927	SWWW0177-080121MS	4061642	SWWW0177-080121	MS	INITIAL	NO3/NO2-N	T	1	2021-08-06 01:38	METHOD	2021-08-06 01:38	SM 4500-NO3-H	1.1	2.5	3.3	0.078	0.2	mg/L	90	0	80	120	0
10572927	761838_10572927	SWWW0185-080121MSD	4061645	SWWW0185-080121	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-06 01:53	METHOD	2021-08-06 01:53	SM 4500-NO3-H	0.78	2.5	2.8	0.078	0.2	mg/L	82	3	80	120	20
10572927	761840_10572927	SWWW0197-080121MS	4061650	SWWW0197-080121	MS	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:11	METHOD	2021-08-06 02:11	SM 4500-NO3-H	1	2.5	3.3	0.078	0.2	mg/L	91	0	80	120	0
10572927	761840_10572927	SWWW0197-080121MSD	4061651	SWWW0197-080121	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:15	METHOD	2021-08-06 02:15	SM 4500-NO3-H	1	2.5	3.2	0.078	0.2	mg/L	89	2	80	120	20
10572927	761840_10572927	SWWW0204-080121MS	4061652	SWWW0204-080121	MS	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:22	METHOD	2021-08-06 02:22	SM 4500-NO3-H	1.2	2.5	3.5	0.078	0.2	mg/L	91	0	80	120	0
10572927	761840_10572927	SWWW0204-080121MSD	4061653	SWWW0204-080121	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:24	METHOD	2021-08-06 02:24	SM 4500-NO3-H	1.2	2.5	3.4	0.078	0.2	mg/L	86	4	80	120	20
10572927	761840_10572927	4061648BLANK_10572927	4061648		MB	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:08	METHOD	2021-08-06 02:08	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10572927	761840_10572927	4061649LCS_10572927	4061649		LCS	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:09	METHOD	2021-08-06 02:09	SM 4500-NO3-H	0	2.5	2.4	0.078	0.2	mg/L	96	0	90	110	0
10572927	761844_10572927	4061662BLANK_10572927	4061662		MB	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:41	METHOD	2021-08-06 02:41	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10572927	761844_10572927	4061663LCS_10572927	4061663		LCS	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:42	METHOD	2021-08-06 02:42	SM 4500-NO3-H	0	2.5	2.4	0.078	0.2	mg/L	96	0	90	110	0
10572927	761844_10572927	SWWW0217-080121MS	4061664	SWWW0217-080121	MS	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:51	METHOD	2021-08-06 02:51	SM 4500-NO3-H	1.3	2.5	3.7	0.078	0.2	mg/L	96	0	80	120	0
10572927	761844_10572927	SWWW0217-080121MSD	4061665	SWWW0217-080121	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-06 02:52	METHOD	2021-08-06 02:52	SM 4500-NO3-H	1.3	2.5	3.4	0.078	0.2	mg/L	84	8	80	120	20
10572927	762373_10572927	SWWW0185-080121MSD	4064797	SWWW0185-080121	MSD	INITIAL	P	T	1	2021-08-10 12:57	SM4500-P-B	2021-08-11 06:10	SM 4500-P-F	0.049	2.5	2.5	0.05	0.1	mg/L	97	3	80	120	20
10572927	762373_10572927	SWWW0185-080121MS	4064796	SWWW0185-080121	MS	INITIAL	P	T	1	2021-08-10 12:57	SM4500-P-B	2021-08-11 06:09	SM 4500-P-F	0.049	2.5	2.6	0.05	0.1	mg/L	100	0	80	120	0
10572927	762373_10572927	4064792BLANK_10572927	4064792		MB	INITIAL	P	T	1	2021-08-10 12:57	SM4500-P-B	2021-08-12 04:01	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10572927	762373_10572927	4064793LCS_10572927	4064793		LCS	INITIAL	P	T	1	2021-08-10 12:57	SM4500-P-B	2021-08-11 05:45	SM 4500-P-F	0	2.5	2.5	0.05	0.1	mg/L	100	0	90	110	0
10572927	763942_10572927	4072834BLANK_10572927	4072834		MB	INITIAL	P	T	1	2021-08-17 03:24	SM4500-P-B	2021-08-18 11:53	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10572927	763942_10572927	4072835LCS_10572927	4072835		LCS	INITIAL	P	T	1	2021-08-17 03:24	SM4500-P-B	2021-08-18 11:54	SM 4500-P-F	0	2.5	2.5	0.05	0.1	mg/L	100	0	90	110	0
10572927	763942_10572927	SWWW0186-080121MS	4072836	SWWW0186-080121	MS	INITIAL	P	T	1	2021-08-17 03:24	SM4500-P-B	2021-08-18 11:59	SM 4500-P-F	0.99	2.5	3.6	0.05	0.1	mg/L	103	0	80	120	0
10572927	763942_10572927	SWWW0186-080121MSD	4072837	SWWW0186-080121	MSD	INITIAL	P	T	1	2021-08-17 03:24	SM4500-P-B	2021-08-18 12:00	SM 4500-P-F	0.99	2.5	3.7	0.05	0.1	mg/L	108	3	80	120	20
10572927	764023_10572927	SWWW0220-080121MS	4073095	SWWW0220-080121	MS	INITIAL	P	T	1	2021-08-17 03:24	SM4500-P-B	2021-08-18 12:24	SM 4500-P-F	0.025	2.5	2.7	0.05	0.1	mg/L	105	0	80	120	0
10572927	764023_10572927	SWWW0220-080121MSD	4073096	SWWW0220-080121	MSD	INITIAL	P	T	1	2021-08-17 03:24	SM4500-P-B	2021-08-18 12:27	SM 4500-P-F	0.025	2.5	2.7	0.05	0.1	mg/L	109	3	80	120	20
10572927	764023_10572927	4073093BLANK_10572927	4073093		MB	INITIAL	P	T	1	2021-08-17 03:24	SM4500-P-B	2021-08-18 12:21	SM 4500-P-F	0	0	0.05	0.05	0.1	mg/L	0	0	0	0	0
10572927	764023_10572927	4073094LCS_10572927	4073094		LCS	INITIAL	P	T	1	2021-08-17 03:24	SM4500-P-B	2021-08-18 12:22	SM 4500-P-F	0	2.5	2.6	0.05	0.1	mg/L	103	0	90	110	0
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	0.000044	0.1	0.1	0.000028	0.0001	mg/L	103	0	70	130	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	REANALYSIS	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 10:26	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	101	0	85	115	0
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	INITIAL	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:23	EPA 200.8	0.0002	0.1	0.1	0.000028	0.0001	mg/L	101	1	70	130	20
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	INITIAL	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:20	EPA 200.8	0.0002	0.1	0.1	0.000028	0.0001	mg/L	100	0	70	130	0
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	0.00032	0.1	0.11	0.000028	0.0001	mg/L	105	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	0.00008	0.1	0.1	0.000028	0.0001	mg/L	103	2	70	130	20
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	0.00008	0.1	0.1	0.000028	0.0001	mg/L	105	0	70	130	0
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	106	0	85	115	0
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	PbDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	PbDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	PbDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	106	0	85	115	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	PbDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	0.00066	0.1	0.1	0.000028	0.0001	mg/L	101	3	70	130	20
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	PbDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	0.00066	0.1	0.1	0.000028	0.0001	mg/L	104	0	70	130	0
10572927	761404_10572927	SWWW0185-080121MS	4059738	SWWW0185-080121	MS	INITIAL	PbTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:13	EPA 200.8	0.00021	0.1	0.082	0.00014	0.0005	mg/L	82	0	70	130	0
10572927	761404_10572927	SWWW0185-080121MSD	4059739	SWWW0185-080121	MSD	INITIAL	PbTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:16	EPA 200.8	0.00021	0.1	0.084	0.00014	0.0005	mg/L	84	2	70	130	20
10572927	761404_10572927	4059735BLANK_10572927	4059735		MB	INITIAL	PbTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:18	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10572927	761404_10572927	4059736LCS_10572927	4059736		LCS	INITIAL	PbTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:21	EPA 200.8	0	0.1	0.094	0.000028	0.0001	mg/L	94	0	85	115	0
10572927	761404_10572927	SWWW0177-080121MS	4059737	SWWW0177-080121	MS	INITIAL	PbTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 01:30	EPA 200.8	0.0011	0.1	0.09	0.00014	0.0005	mg/L	88	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10572927	761405_10572927	4059754BLANK_10572927	4059754		MB	INITIAL	PbTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:13	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10572927	761405_10572927	4059755LCS_10572927	4059755		LCS	INITIAL	PbTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:16	EPA 200.8	0	0.1	0.091	0.000028	0.0001	mg/L	91	0	85	115	0
10572927	761405_10572927	SWWW0204-080121MS	4059757	SWWW0204-080121	MS	INITIAL	PbTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:35	EPA 200.8	0.00038	0.1	0.085	0.00014	0.0005	mg/L	85	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MSD	4059758	SWWW0204-080121	MSD	INITIAL	PbTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:38	EPA 200.8	0.00038	0.1	0.082	0.00014	0.0005	mg/L	81	4	70	130	20
10572927	761405_10572927	SWWW0197-080121MS	4059756	SWWW0197-080121	MS	INITIAL	PbTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 10:25	EPA 200.8	0.016	0.1	0.1	0.00014	0.0005	mg/L	86	0	70	130	0
10572927	761406_10572927	SWWW0217-080121MS	4059763	SWWW0217-080121	MS	INITIAL	PbTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:24	EPA 200.8	0.033	0.1	0.12	0.00014	0.0005	mg/L	83	0	70	130	0
10572927	761406_10572927	SWWW0217-080121MSD	4059764	SWWW0217-080121	MSD	INITIAL	PbTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:27	EPA 200.8	0.033	0.1	0.12	0.00014	0.0005	mg/L	83	0	70	130	20
10572927	761406_10572927	4059762LCS_10572927	4059762		LCS	INITIAL	PbTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:57	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	104	0	85	115	0
10572927	761406_10572927	4059761BLANK_10572927	4059761		MB	INITIAL	PbTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:54	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10572927	762774_10572927	4066750BLANK_10572927	4066750		MB	INITIAL	SO4	T	1	2021-08-12 12:43	METHOD	2021-08-12 12:43	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10572927	762774_10572927	4066751LCS_10572927	4066751		LCS	INITIAL	SO4	T	1	2021-08-12 12:44	METHOD	2021-08-12 12:44	ASTM D516-90-02	0	20	17.8	1.2	2.5	mg/L	89	0	80	120	0
10572927	762774_10572927	4066752LCSD_10572927	4066752	4066751LCS_10572927	LCSD	INITIAL	SO4	T	1	2021-08-12 12:44	METHOD	2021-08-12 12:44	ASTM D516-90-02	0	20	17.8	1.2	2.5	mg/L	89	0	80	120	20
10572927	762774_10572927	SWWW0185-080121MSD	4066756	SWWW0185-080121	MSD	INITIAL	SO4	T	20	2021-08-12 03:16	METHOD	2021-08-12 03:16	ASTM D516-90-02	553	20	552	24.2	50	mg/L	0	1	80	120	30
10572927	762774_10572927	SWWW0185-080121MS	4066755	SWWW0185-080121	MS	INITIAL	SO4	T	20	2021-08-12 03:15	METHOD	2021-08-12 03:15	ASTM D516-90-02	553	20	555	24.2	50	mg/L	10	0	80	120	0
10572927	763351_10572927	SWWW0204-080121MSD	4069579	SWWW0204-080121	MSD	INITIAL	SO4	T	2	2021-08-16 12:52	METHOD	2021-08-16 12:52	ASTM D516-90-02	36.2	40	74.8	2.4	5	mg/L	96	2	80	120	30
10572927	763351_10572927	SWWW0204-080121MS	4069578	SWWW0204-080121	MS	INITIAL	SO4	T	2	2021-08-16 12:51	METHOD	2021-08-16 12:51	ASTM D516-90-02	36.2	40	73.6	2.4	5	mg/L	94	0	80	120	0
10572927	763351_10572927	4069573BLANK_10572927	4069573		MB	INITIAL	SO4	T	1	2021-08-16 12:38	METHOD	2021-08-16 12:38	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10572927	763351_10572927	4069574LCS_10572927	4069574		LCS	INITIAL	SO4	T	1	2021-08-16 12:38	METHOD	2021-08-16 12:38	ASTM D516-90-02	0	20	19.5	1.2	2.5	mg/L	97	0	80	120	0
10572927	763351_10572927	4069575LCSD_10572927	4069575	4069574LCS_10572927	LCSD	INITIAL	SO4	T	1	2021-08-16 12:39	METHOD	2021-08-16 12:39	ASTM D516-90-02	0	20	19.2	1.2	2.5	mg/L	96	1	80	120	20
10572927	763352_10572927	4069581BLANK_10572927	4069581		MB	INITIAL	SO4	T	1	2021-08-16 12:54	METHOD	2021-08-16 12:54	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10572927	763352_10572927	4069582LCS_10572927	4069582		LCS	INITIAL	SO4	T	1	2021-08-16 12:55	METHOD	2021-08-16 12:55	ASTM D516-90-02	0	20	18.1	1.2	2.5	mg/L	91	0	80	120	0
10572927	763352_10572927	4069583LCSD_10572927	4069583	4069582LCS_10572927	LCSD	INITIAL	SO4	T	1	2021-08-16 12:55	METHOD	2021-08-16 12:55	ASTM D516-90-02	0	20	18.2	1.2	2.5	mg/L	91	1	80	120	20
10572927	763352_10572927	SWWW0208-080121MS	4069584	SWWW0208-080121	MS	INITIAL	SO4	T	2	2021-08-16 12:57	METHOD	2021-08-16 12:57	ASTM D516-90-02	36.3	20	76.9	2.4	5	mg/L	203	0	80	120	0
10572927	763352_10572927	SWWW0208-080121MSD	4069585	SWWW0208-080121	MSD	INITIAL	SO4	T	2	2021-08-16 12:58	METHOD	2021-08-16 12:58	ASTM D516-90-02	36.3	40	74.8	2.4	5	mg/L	96	3	80	120	30
10572927	763352_10572927	SWWW0209-080121MS	4069587	SWWW0209-080121	MS	INITIAL	SO4	T	25	2021-08-16 01:27	METHOD	2021-08-16 01:27	ASTM D516-90-02	605	4	781	30.2	62.5	mg/L	4390	0	80	120	0
10572927	763352_10572927	SWWW0209-080121MSD	4069588	SWWW0209-080121	MSD	INITIAL	SO4	T	25	2021-08-16 01:27	METHOD	2021-08-16 01:27	ASTM D516-90-02	605	100	761	30.2	62.5	mg/L	156	3	80	120	30
10572927	761620_10572927	SWWW0185-080121DUP	4060784	SWWW0185-080121	LR	INITIAL	TDS	D	1	2021-08-06 09:36	METHOD	2021-08-06 09:36	SM 2540C	989	0	1020	5	10	mg/L	0	3	0	0	5
10572927	761620_10572927	SWWW0177-080121DUP	4060783	SWWW0177-080121	LR	INITIAL	TDS	D	1	2021-08-06 09:36	METHOD	2021-08-06 09:36	SM 2540C	225	0	212	5	10	mg/L	0	6	0	0	5
10572927	761620_10572927	4060781BLANK_10572927	4060781		MB	INITIAL	TDS	D	1	2021-08-06 09:36	METHOD	2021-08-06 09:36	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10572927	761620_10572927	4060782LCS_10572927	4060782		LCS	INITIAL	TDS	D	1	2021-08-06 09:36	METHOD	2021-08-06 09:36	SM 2540C	0	1000	1000	10	20	mg/L	100	0	80	120	0
10572927	761623_10572927	4060791BLANK_10572927	4060791		MB	INITIAL	TDS	D	1	2021-08-06 10:25	METHOD	2021-08-06 10:25	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10572927	761623_10572927	4060792LCS_10572927	4060792		LCS	INITIAL	TDS	D	1	2021-08-06 10:25	METHOD	2021-08-06 10:25	SM 2540C	0	1000	1010	10	20	mg/L	101	0	80	120	0
10572927	761623_10572927	SWWW0197-080121DUP	4060793	SWWW0197-080121	LR	INITIAL	TDS	D	1	2021-08-06 10:25	METHOD	2021-08-06 10:25	SM 2540C	198	0	204	5	10	mg/L	0	3	0	0	5
10572927	761623_10572927	SWWW0204-080121DUP	4060794	SWWW0204-080121	LR	INITIAL	TDS	D	1	2021-08-06 10:25	METHOD	2021-08-06 10:25	SM 2540C	229	0	241	5	10	mg/L	0	5	0	0	5
10572927	761626_10572927	SWWW0219-080121DUP	4060804	SWWW0219-080121	LR	INITIAL	TDS	D	1	2021-08-06 11:33	METHOD	2021-08-06 11:33	SM 2540C	560	0	558	5	10	mg/L	0	0	0	0	5
10572927	761626_10572927	SWWW0220-080121DUP	4060805	SWWW0220-080121	LR	INITIAL	TDS	D	1	2021-08-06 11:33	METHOD	2021-08-06 11:33	SM 2540C	754	0	773	5	10	mg/L	0	2	0	0	5
10572927	761626_10572927	4060802BLANK_10572927	4060802		MB	INITIAL	TDS	D	1	2021-08-06 11:33	METHOD	2021-08-06 11:33	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10572927	761626_10572927	4060803LCS_10572927	4060803		LCS	INITIAL	TDS	D	1	2021-08-06 11:33	METHOD	2021-08-06 11:33	SM 2540C	0	1000	1030	10	20	mg/L	103	0	80	120	0
10572927	737973_10572927	2958856BLANK_10572927	2958856		MB	INITIAL	TKN	T	1	2021-08-16 05:00	METHOD	2021-08-16 01:47	EPA 351.2	0	0	0.48	0.48	0.5	mg/L	0	0	0	0	0
10572927	737973_10572927	2958857LCS_10572927	2958857		LCS	INITIAL	TKN	T	1	2021-08-16 05:00	METHOD	2021-08-16 02:36	EPA 351.2	0	5	5.1	0.48	0.5	mg/L	102	0	90	110	0
10572927	737973_10572927	SWWW0185-080121DUP	2958858	SWWW0185-080121	LR	INITIAL	TKN	T	1	2021-08-16 05:00	METHOD	2021-08-16 02:01	EPA 351.2	0.45	0	0.69	0.48	0.5	mg/L	0	0	0	0	10
10572927	737973_10572927	SWWW0185-080121MS	2958859	SWWW0185-080121	MS	INITIAL	TKN	T	1	2021-08-16 05:00	METHOD	2021-08-16 02:02	EPA 351.2	0.45	5	6.4	0.48	0.5	mg/L	118	0	90	110	0
10572927	737973_10572927	SWWW0185-080121MSD	2958860	SWWW0185-080121	MSD	INITIAL	TKN	T	1	2021-08-16 05:00	METHOD	2021-08-16 02:03	EPA 351.2	0.45	5	6.1	0.48	0.5	mg/L	114	4	90	110	10
10572927	737974_10572927	SWWW0199-080121DUP	2958864	SWWW0199-080121	LR	INITIAL	TKN	T	1	2021-08-16 05:00	METHOD	2021-08-16 02:27	EPA 351.2	5.6	0	5.3	0.48	0.5	mg/L	0	5	0	0	10
10572927	737974_10572927	SWWW0197-080121MS	2958863	SWWW0197-080121	MS	INITIAL	TKN	T	1	2021-08-16 05:00	METHOD	2021-08-16 02:22	EPA 351.2	1.7	5	7	0.48	0.5	mg/L	106	0	90	110	0
10572927	737974_10572927	2958861BLANK_10572927	2958861		MB	INITIAL	TKN	T	1	2021-08-16 05:00	METHOD	2021-08-16 02:18	EPA 351.2	0	0	0.48	0.48	0.5	mg/L	0	0	0	0	0
10572927	737974_10572927	2958862LCS_10572927	2958862		LCS	INITIAL	TKN	T	1	2021-08-16 05:00	METHOD	2021-08-16 02:19	EPA 351.2	0	5	5.4	0.48	0.5	mg/L	108	0	90	110	0
10572927	761621_10572927	SWWW0177-080121DUP	4060787	SWWW0177-080121	LR	INITIAL	TSS	T	1	2021-08-06 09:36	METHOD	2021-08-06 09:36	SM 2540D	8.3	0	4.2	5	10	mg/L	0	0	0	0	5
10572927	761621_10572927	4060785BLANK_10572927	4060785		MB	INITIAL	TSS	T	1	2021-08-06 09:36	METHOD	2021-08-06 09:36	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10572927	761621_10572927	4060786LCS_10572927	4060786		LCS	INITIAL	TSS	T	1	2021-08-06 09:36	METHOD	2021-08-06 09:36	SM 2540D	0	100	97.2	10	20	mg/L	97	0	80	120	0
10572927	761621_10572927	SWWW0185-080121DUP	4060788	SWWW0185-080121	LR	INITIAL	TSS	T	1	2021-08-06 09:36	METHOD	2021-08-06 09:36	SM 2540D	64.2	0	52	5	10	mg/L	0	21	0	0	5
10572927	761624_10572927	SWWW0204-080121DUP	4060798	SWWW0204-080121	LR	INITIAL	TSS	T	1	2021-08-06 10:26	METHOD	2021-08-06 10:26	SM 2540D	0.5	0	0.6	5	10	mg/L	0	0	0	0	5

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10572927	761624_10572927	SWWW0197-080121DUP	4060797	SWWW0197-080121	LR	INITIAL	TSS	T	1	2021-08-06 10:26	METHOD	2021-08-06 10:26	SM 2540D	94.9	0	115	5	10	mg/L	0	19	0	0	5
10572927	761624_10572927	4060795BLANK_10572927	4060795		MB	INITIAL	TSS	T	1	2021-08-06 10:26	METHOD	2021-08-06 10:26	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10572927	761624_10572927	4060796LCS_10572927	4060796		LCS	INITIAL	TSS	T	1	2021-08-06 10:26	METHOD	2021-08-06 10:26	SM 2540D	0	100	97.2	10	20	mg/L	97	0	80	120	0
10572927	761627_10572927	4060807BLANK_10572927	4060807		MB	INITIAL	TSS	T	1	2021-08-06 11:33	METHOD	2021-08-06 11:33	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10572927	761627_10572927	4060808LCS_10572927	4060808		LCS	INITIAL	TSS	T	1	2021-08-06 11:33	METHOD	2021-08-06 11:33	SM 2540D	0	100	98	10	20	mg/L	98	0	80	120	0
10572927	761627_10572927	SWWW0220-080121DUP	4060810	SWWW0220-080121	LR	INITIAL	TSS	T	1	2021-08-06 11:33	METHOD	2021-08-06 11:33	SM 2540D	24	0	19.6	5	10	mg/L	0	20	0	0	5
10572927	761627_10572927	SWWW0219-080121DUP	4060809	SWWW0219-080121	LR	INITIAL	TSS	T	1	2021-08-06 11:33	METHOD	2021-08-06 11:33	SM 2540D	100	0	117	5	10	mg/L	0	16	0	0	5
10572927	761395_10572927	SWWW0185-080121MS	4059668	SWWW0185-080121	MS	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:20	EPA 200.8	0.046	0.1	0.15	0.002	0.005	mg/L	101	0	70	130	0
10572927	761395_10572927	SWWW0185-080121MSD	4059669	SWWW0185-080121	MSD	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 09:23	EPA 200.8	0.046	0.1	0.15	0.002	0.005	mg/L	100	1	70	130	20
10572927	761395_10572927	SWWW0177-080121MS	4059667	SWWW0177-080121	MS	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 08:04	EPA 200.8	0.0067	0.1	0.11	0.002	0.005	mg/L	104	0	70	130	0
10572927	761395_10572927	4059666LCS_10572927	4059666		LCS	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:57	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	103	0	85	115	0
10572927	761395_10572927	4059665BLANK_10572927	4059665		MB	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 07:54	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10572927	761396_10572927	4059671LCS_10572927	4059671		LCS	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:16	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	103	0	85	115	0
10572927	761396_10572927	4059670BLANK_10572927	4059670		MB	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:13	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10572927	761396_10572927	SWWW0197-080121MS	4059672	SWWW0197-080121	MS	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-16 11:23	EPA 200.8	0.012	0.1	0.12	0.002	0.005	mg/L	104	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MS	4059673	SWWW0204-080121	MS	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:39	EPA 200.8	0.017	0.1	0.12	0.002	0.005	mg/L	103	0	70	130	0
10572927	761396_10572927	SWWW0204-080121MSD	4059674	SWWW0204-080121	MSD	INITIAL	ZnDis	D	1	2021-08-06 10:42	EPA 200.8	2021-08-17 12:43	EPA 200.8	0.017	0.1	0.12	0.002	0.005	mg/L	103	0	70	130	20
10572927	761397_10572927	SWWW0217-080121MS	4059677	SWWW0217-080121	MS	INITIAL	ZnDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:09	EPA 200.8	0.055	0.1	0.16	0.002	0.005	mg/L	105	0	70	130	0
10572927	761397_10572927	SWWW0217-080121MSD	4059678	SWWW0217-080121	MSD	INITIAL	ZnDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 06:13	EPA 200.8	0.055	0.1	0.15	0.002	0.005	mg/L	97	5	70	130	20
10572927	761397_10572927	4059675BLANK_10572927	4059675		MB	INITIAL	ZnDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:53	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10572927	761397_10572927	4059676LCS_10572927	4059676		LCS	INITIAL	ZnDis	D	1	2021-08-06 10:20	EPA 200.8	2021-08-13 05:56	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	105	0	85	115	0
10572927	761404_10572927	4059735BLANK_10572927	4059735		MB	INITIAL	ZnTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:18	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10572927	761404_10572927	4059736LCS_10572927	4059736		LCS	INITIAL	ZnTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 01:21	EPA 200.8	0	0.1	0.089	0.002	0.005	mg/L	89	0	85	115	0
10572927	761404_10572927	SWWW0177-080121MS	4059737	SWWW0177-080121	MS	INITIAL	ZnTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 01:30	EPA 200.8	0.0097	0.1	0.093	0.0098	0.025	mg/L	83	0	70	130	0
10572927	761404_10572927	SWWW0185-080121MSD	4059739	SWWW0185-080121	MSD	INITIAL	ZnTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:16	EPA 200.8	0.034	0.1	0.12	0.0098	0.025	mg/L	87	4	70	130	20
10572927	761404_10572927	SWWW0185-080121MS	4059738	SWWW0185-080121	MS	INITIAL	ZnTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-10 12:13	EPA 200.8	0.034	0.1	0.12	0.0098	0.025	mg/L	82	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MS	4059757	SWWW0204-080121	MS	INITIAL	ZnTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:35	EPA 200.8	0.015	0.1	0.097	0.0098	0.025	mg/L	82	0	70	130	0
10572927	761405_10572927	SWWW0204-080121MSD	4059758	SWWW0204-080121	MSD	INITIAL	ZnTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 11:38	EPA 200.8	0.015	0.1	0.093	0.0098	0.025	mg/L	78	4	70	130	20
10572927	761405_10572927	SWWW0197-080121MS	4059756	SWWW0197-080121	MS	INITIAL	ZnTR	T	5	2021-08-06 11:04	EPA 200.8	2021-08-09 10:25	EPA 200.8	0.079	0.1	0.16	0.0098	0.025	mg/L	79	0	70	130	0
10572927	761405_10572927	4059754BLANK_10572927	4059754		MB	INITIAL	ZnTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:13	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10572927	761405_10572927	4059755LCS_10572927	4059755		LCS	INITIAL	ZnTR	T	1	2021-08-06 11:04	EPA 200.8	2021-08-09 10:16	EPA 200.8	0	0.1	0.091	0.002	0.005	mg/L	91	0	85	115	0
10572927	761406_10572927	4059761BLANK_10572927	4059761		MB	INITIAL	ZnTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:54	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10572927	761406_10572927	4059762LCS_10572927	4059762		LCS	INITIAL	ZnTR	T	1	2021-08-06 11:47	EPA 200.8	2021-08-10 01:57	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	101	0	85	115	0
10572927	761406_10572927	SWWW0217-080121MSD	4059764	SWWW0217-080121	MSD	INITIAL	ZnTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:27	EPA 200.8	0.17	0.1	0.24	0.0098	0.025	mg/L	69	1	70	130	20
10572927	761406_10572927	SWWW0217-080121MS	4059763	SWWW0217-080121	MS	INITIAL	ZnTR	T	5	2021-08-06 11:47	EPA 200.8	2021-08-10 02:24	EPA 200.8	0.17	0.1	0.23	0.0098	0.025	mg/L	67	0	70	130	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	AgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	AgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	0.05	0.054	0.00016	0.0005	mg/L	108	0	85	115	0
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	AgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	0.000049	0.05	0.054	0.00016	0.0005	mg/L	109	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	AgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	0.00001	0.05	0.052	0.00016	0.0005	mg/L	104	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	AgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	0.00001	0.05	0.053	0.00016	0.0005	mg/L	106	2	70	130	20
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	AgDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	0	0.05	0.043	0.00082	0.0025	mg/L	86	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	AgDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	0	0.05	0.049	0.00082	0.0025	mg/L	98	13	70	130	20
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	AgDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	0	0.05	0.05	0.00082	0.0025	mg/L	99	0	70	130	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	AgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	AgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	0.05	0.052	0.00016	0.0005	mg/L	105	0	85	115	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	AgDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	AgDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.05	0.054	0.00016	0.0005	mg/L	108	0	85	115	0
10574117	763880_10574117	4072671BLANK_10574117	4072671		MB	REANALYSIS	AgTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:31	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10574117	763880_10574117	4072672LCS_10574117	4072672		LCS	REANALYSIS	AgTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:34	EPA 200.8	0	0.05	0.053	0.00016	0.0005	mg/L	107	0	85	115	0
10574117	763880_10574117	SWWW0221-080821MS	4072673	SWWW0221-080821	MS	DILUTION	AgTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:40	EPA 200.8	0.00059	0.05	0.053	0.00016	0.0005	mg/L	105	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MS	4072674	SWWW0235-080821	MS	INITIAL	AgTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:00	EPA 200.8	0.0002	0.05	0.046	0.00082	0.0025	mg/L	92	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MSD	4072675	SWWW0235-080821	MSD	INITIAL	AgTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:03	EPA 200.8	0.0002	0.05	0.05	0.00082	0.0025	mg/L	99	7	70	130	20

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10574117	763883_10574117	SWWW0251-080821MS	4072683	SWWW0251-080821	MS	INITIAL	AgTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 11:44	EPA 200.8	0.00018	0.05	0.047	0.00082	0.0025	mg/L	94	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MSD	4072682	SWWW0243-080821	MSD	INITIAL	AgTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:40	EPA 200.8	0.000076	0.05	0.045	0.00082	0.0025	mg/L	90	4	70	130	20
10574117	763883_10574117	SWWW0243-080821MS	4072681	SWWW0243-080821	MS	INITIAL	AgTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:37	EPA 200.8	0.000076	0.05	0.047	0.00082	0.0025	mg/L	94	0	70	130	0
10574117	763883_10574117	4072679BLANK_10574117	4072679		MB	INITIAL	AgTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:55	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10574117	763883_10574117	4072680LCS_10574117	4072680		LCS	INITIAL	AgTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:58	EPA 200.8	0	0.05	0.05	0.00016	0.0005	mg/L	101	0	85	115	0
10574117	763896_10574117	4072718BLANK_10574117	4072718		MB	INITIAL	AgTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10574117	763896_10574117	4072719LCS_10574117	4072719		LCS	INITIAL	AgTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.05	0.053	0.00016	0.0005	mg/L	106	0	85	115	0
10574117	767016_10574117	4087585BLANK_10574117	4087585		MB	INITIAL	AgTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:24	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10574117	767016_10574117	4087586LCS_10574117	4087586		LCS	INITIAL	AgTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:27	EPA 200.8	0	0.05	0.049	0.00016	0.0005	mg/L	97	0	85	115	0
10574117	767016_10574117	SWWW0234-080921MS	4087587	SWWW0234-080921	MS	INITIAL	AgTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:00	EPA 200.8	0.000016	0.05	0.056	0.00082	0.0025	mg/L	112	0	70	130	0
10574117	767016_10574117	SWWW0234-080921MSD	4087588	SWWW0234-080921	MSD	INITIAL	AgTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:03	EPA 200.8	0.000016	0.05	0.051	0.00082	0.0025	mg/L	102	10	70	130	20
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	AlDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	0.016	2	2.1	0.008	0.02	mg/L	106	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	AlDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	0.016	2	2.1	0.008	0.02	mg/L	106	0	70	130	20
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	AlDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	0.038	2	2.2	0.008	0.02	mg/L	107	0	70	130	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	AlDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	105	0	85	115	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	AlDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	AlDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	AlDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	104	0	85	115	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	AlDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	0.016	2	2	0.04	0.1	mg/L	98	14	70	130	20
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	AlDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	0.016	2	1.7	0.04	0.1	mg/L	85	0	70	130	0
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	AlDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	0.0099	2	1.9	0.04	0.1	mg/L	96	0	70	130	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	AlDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	106	0	85	115	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	AlDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10574117	764614_10574117	SWWW0223-080821MS	4075743	SWWW0223-080821	MS	INITIAL	ALK_CaCO3	T	1	2021-08-19 11:52	METHOD	2021-08-19 11:52	SM 2320B	99.6	40	141	1.8	5	mg/L	103	0	80	120	0
10574117	764614_10574117	SWWW0223-080821MSD	4075744	SWWW0223-080821	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-19 11:56	METHOD	2021-08-19 11:56	SM 2320B	99.6	40	141	1.8	5	mg/L	102	0	80	120	20
10574117	764614_10574117	4075740BLANK_10574117	4075740		MB	INITIAL	ALK_CaCO3	T	1	2021-08-19 10:53	METHOD	2021-08-19 10:53	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10574117	764614_10574117	4075741LCS_10574117	4075741		LCS	INITIAL	ALK_CaCO3	T	1	2021-08-19 10:56	METHOD	2021-08-19 10:56	SM 2320B	0	40	42.4	1.8	5	mg/L	106	0	90	110	0
10574117	764614_10574117	4075742LCSD_10574117	4075742	4075741LCS_10574117	LCSD	INITIAL	ALK_CaCO3	T	1	2021-08-19 11:00	METHOD	2021-08-19 11:00	SM 2320B	0	40	43.8	1.8	5	mg/L	109	3	90	110	20
10574117	764614_10574117	SWWW0235-080821MSD	4075746	SWWW0235-080821	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-19 01:06	METHOD	2021-08-19 01:06	SM 2320B	86.7	40	125	1.8	5	mg/L	97	1	80	120	20
10574117	764614_10574117	SWWW0235-080821MS	4075745	SWWW0235-080821	MS	INITIAL	ALK_CaCO3	T	1	2021-08-19 01:02	METHOD	2021-08-19 01:02	SM 2320B	86.7	40	124	1.8	5	mg/L	93	0	80	120	0
10574117	764615_10574117	SWWW0238-080821MS	4075750	SWWW0238-080821	MS	INITIAL	ALK_CaCO3	T	1	2021-08-19 01:46	METHOD	2021-08-19 01:46	SM 2320B	84.3	40	124	1.8	5	mg/L	99	0	80	120	0
10574117	764615_10574117	SWWW0238-080821MSD	4075751	SWWW0238-080821	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-19 01:51	METHOD	2021-08-19 01:51	SM 2320B	84.3	40	124	1.8	5	mg/L	100	0	80	120	20
10574117	764615_10574117	SWWW0243-080821MS	4075752	SWWW0243-080821	MS	INITIAL	ALK_CaCO3	T	1	2021-08-19 02:29	METHOD	2021-08-19 02:29	SM 2320B	55.9	40	96.1	1.8	5	mg/L	100	0	80	120	0
10574117	764615_10574117	SWWW0243-080821MSD	4075753	SWWW0243-080821	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-19 02:33	METHOD	2021-08-19 02:33	SM 2320B	55.9	40	96.2	1.8	5	mg/L	101	0	80	120	20
10574117	764615_10574117	4075747BLANK_10574117	4075747		MB	INITIAL	ALK_CaCO3	T	1	2021-08-19 01:30	METHOD	2021-08-19 01:30	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10574117	764615_10574117	4075748LCS_10574117	4075748		LCS	INITIAL	ALK_CaCO3	T	1	2021-08-19 01:34	METHOD	2021-08-19 01:34	SM 2320B	0	40	42.3	1.8	5	mg/L	106	0	90	110	0
10574117	764615_10574117	4075749LCSD_10574117	4075749	4075748LCS_10574117	LCSD	INITIAL	ALK_CaCO3	T	1	2021-08-19 01:37	METHOD	2021-08-19 01:37	SM 2320B	0	40	42.2	1.8	5	mg/L	106	0	90	110	20
10574117	765009_10574117	4077747BLANK_10574117	4077747		MB	INITIAL	ALK_CaCO3	T	1	2021-08-20 01:32	METHOD	2021-08-20 01:32	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10574117	765009_10574117	4077748LCS_10574117	4077748		LCS	INITIAL	ALK_CaCO3	T	1	2021-08-20 01:35	METHOD	2021-08-20 01:35	SM 2320B	0	40	42.4	1.8	5	mg/L	106	0	90	110	0
10574117	765009_10574117	4077749LCSD_10574117	4077749	4077748LCS_10574117	LCSD	INITIAL	ALK_CaCO3	T	1	2021-08-20 01:38	METHOD	2021-08-20 01:38	SM 2320B	0	40	42.4	1.8	5	mg/L	106	0	90	110	20
10574117	765009_10574117	SWWW0234-080921MS	4077752	SWWW0234-080921	MS	INITIAL	ALK_CaCO3	T	1	2021-08-20 03:07	METHOD	2021-08-20 03:07	SM 2320B	0.82	40	43	1.8	5	mg/L	106	0	80	120	0
10574117	765009_10574117	SWWW0234-080921MSD	4077753	SWWW0234-080921	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-20 03:10	METHOD	2021-08-20 03:10	SM 2320B	0.82	40	43.6	1.8	5	mg/L	107	1	80	120	20
10574117	763880_10574117	SWWW0235-080821MSD	4072675	SWWW0235-080821	MSD	INITIAL	AlTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:03	EPA 200.8	1.2	2	3.3	0.04	0.1	mg/L	105	5	70	130	20
10574117	763880_10574117	SWWW0235-080821MS	4072674	SWWW0235-080821	MS	INITIAL	AlTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:00	EPA 200.8	1.2	2	3.1	0.04	0.1	mg/L	97	0	70	130	0
10574117	763880_10574117	SWWW0221-080821MS	4072673	SWWW0221-080821	MS	INITIAL	AlTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 06:03	EPA 200.8	7.9	2	11.9	0.04	0.1	mg/L	199	0	70	130	0
10574117	763880_10574117	4072671BLANK_10574117	4072671		MB	REANALYSIS	AlTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:31	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10574117	763880_10574117	4072672LCS_10574117	4072672		LCS	INITIAL	AlTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-19 05:55	EPA 200.8	0	2	2.2	0.008	0.02	mg/L	112	0	85	115	0
10574117	763883_10574117	4072679BLANK_10574117	4072679		MB	INITIAL	AlTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:55	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10574117	763883_10574117	4072680LCS_10574117	4072680		LCS	INITIAL	AlTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:58	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	105	0	85	115	0
10574117	763883_10574117	SWWW0243-080821MSD	4072682	SWWW0243-080821	MSD	INITIAL	AlTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:40	EPA 200.8	1.2	2	2.9	0.04	0.1	mg/L	85	8	70	130	20
10574117	763883_10574117	SWWW0243-080821MS	4072681	SWWW0243-080821	MS	INITIAL	AlTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:37	EPA 200.8	1.2	2	3.2	0.04	0.1	mg/L	98	0	70	130	0
10574117	763883_10574117	SWWW0251-080821MS	4072683	SWWW0251-080821	MS	INITIAL	AlTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 11:44	EPA 200.8	1.7	2	3.6	0.04	0.1	mg/L	98	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10574117	763896_10574117	4072718BLANK_10574117	4072718		MB	INITIAL	AlTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10574117	763896_10574117	4072719LCS_10574117	4072719		LCS	INITIAL	AlTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	2	2	0.008	0.02	mg/L	101	0	85	115	0
10574117	767016_10574117	4087585BLANK_10574117	4087585		MB	INITIAL	AlTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:24	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10574117	767016_10574117	4087586LCS_10574117	4087586		LCS	INITIAL	AlTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:27	EPA 200.8	0	2	2	0.008	0.02	mg/L	99	0	85	115	0
10574117	767016_10574117	SWWW0234-080921MSD	4087588	SWWW0234-080921	MSD	INITIAL	AlTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:03	EPA 200.8	0.0031	2	2	0.04	0.1	mg/L	99	13	70	130	20
10574117	767016_10574117	SWWW0234-080921MS	4087587	SWWW0234-080921	MS	INITIAL	AlTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:00	EPA 200.8	0.0031	2	2.3	0.04	0.1	mg/L	113	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	AsDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	0.0031	0.1	0.086	0.000083	0.0005	mg/L	83	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	AsDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	0.0031	0.1	0.1	0.000083	0.0005	mg/L	100	18	70	130	20
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	AsDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	0.0022	0.1	0.099	0.000083	0.0005	mg/L	97	0	70	130	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	AsDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	0.1	0.095	0.000083	0.0005	mg/L	95	0	85	115	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	AsDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	AsDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	0.1	0.095	0.000083	0.0005	mg/L	95	0	85	115	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	AsDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	AsDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	0.0032	0.1	0.097	0.00041	0.0025	mg/L	94	14	70	130	20
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	AsDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	0.0032	0.1	0.084	0.00041	0.0025	mg/L	81	0	70	130	0
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	AsDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	0.003	0.1	0.089	0.00041	0.0025	mg/L	86	0	70	130	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.099	0.000083	0.0005	mg/L	99	0	85	115	0
10574117	763880_10574117	4072672LCS_10574117	4072672		LCS	INITIAL	AsTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-19 05:55	EPA 200.8	0	0.1	0.092	0.000083	0.0005	mg/L	92	0	85	115	0
10574117	763880_10574117	4072671BLANK_10574117	4072671		MB	REANALYSIS	AsTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:31	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10574117	763880_10574117	SWWW0221-080821MS	4072673	SWWW0221-080821	MS	INITIAL	AsTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 06:03	EPA 200.8	0.01	0.1	0.11	0.00041	0.0025	mg/L	98	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MSD	4072675	SWWW0235-080821	MSD	INITIAL	AsTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:03	EPA 200.8	0.0059	0.1	0.1	0.00041	0.0025	mg/L	99	7	70	130	20
10574117	763880_10574117	SWWW0235-080821MS	4072674	SWWW0235-080821	MS	INITIAL	AsTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:00	EPA 200.8	0.0059	0.1	0.098	0.00041	0.0025	mg/L	92	0	70	130	0
10574117	763883_10574117	SWWW0251-080821MS	4072683	SWWW0251-080821	MS	INITIAL	AsTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 11:44	EPA 200.8	0.0059	0.1	0.091	0.00041	0.0025	mg/L	85	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MSD	4072682	SWWW0243-080821	MSD	INITIAL	AsTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:40	EPA 200.8	0.0046	0.1	0.086	0.00041	0.0025	mg/L	82	5	70	130	20
10574117	763883_10574117	SWWW0243-080821MS	4072681	SWWW0243-080821	MS	INITIAL	AsTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:37	EPA 200.8	0.0046	0.1	0.091	0.00041	0.0025	mg/L	86	0	70	130	0
10574117	763883_10574117	4072680LCS_10574117	4072680		LCS	REANALYSIS	AsTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-24 11:56	EPA 200.8	0	0.1	0.088	0.000083	0.0005	mg/L	88	0	85	115	0
10574117	763883_10574117	4072679BLANK_10574117	4072679		MB	REANALYSIS	AsTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-24 11:50	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10574117	763896_10574117	4072718BLANK_10574117	4072718		MB	INITIAL	AsTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10574117	763896_10574117	4072719LCS_10574117	4072719		LCS	INITIAL	AsTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.09	0.000083	0.0005	mg/L	90	0	85	115	0
10574117	767016_10574117	4087585BLANK_10574117	4087585		MB	INITIAL	AsTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:24	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10574117	767016_10574117	4087586LCS_10574117	4087586		LCS	INITIAL	AsTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:27	EPA 200.8	0	0.1	0.088	0.000083	0.0005	mg/L	88	0	85	115	0
10574117	767016_10574117	SWWW0234-080921MS	4087587	SWWW0234-080921	MS	INITIAL	AsTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:00	EPA 200.8	0.000013	0.1	0.098	0.00041	0.0025	mg/L	98	0	70	130	0
10574117	767016_10574117	SWWW0234-080921MSD	4087588	SWWW0234-080921	MSD	INITIAL	AsTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:03	EPA 200.8	0.000013	0.1	0.09	0.00041	0.0025	mg/L	90	9	70	130	20
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	CaDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	69.6	2	73.3	0.018	0.04	mg/L	182	3	70	130	20
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	CaDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	69.6	2	70.8	0.018	0.04	mg/L	57	0	70	130	0
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	CaDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	12	2	13.9	0.018	0.04	mg/L	97	0	70	130	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	CaDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	CaDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	2	2	0.018	0.04	mg/L	102	0	85	115	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	REANALYSIS	CaDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-23 10:16	EPA 200.8	0	2	2.1	0.018	0.04	mg/L	106	0	85	115	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	REANALYSIS	CaDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-23 10:13	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	DILUTION	CaDis	D	20	2021-08-17 01:41	EPA 200.8	2021-08-23 10:34	EPA 200.8	18.1	2	24.7	0.36	0.8	mg/L	329	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	DILUTION	CaDis	D	20	2021-08-17 01:41	EPA 200.8	2021-08-23 10:38	EPA 200.8	18.1	2	22	0.36	0.8	mg/L	196	11	70	130	20
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	DILUTION	CaDis	D	20	2021-08-17 01:41	EPA 200.8	2021-08-23 11:11	EPA 200.8	67.8	2	68.7	0.36	0.8	mg/L	43	0	70	130	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	CaDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	2	2	0.018	0.04	mg/L	102	0	85	115	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	CaDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	CdDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	0.000046	0.1	0.1	0.000016	0.00008	mg/L	103	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	CdDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	0.000099	0.1	0.1	0.000016	0.00008	mg/L	101	0	70	130	20
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	CdDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	0.000099	0.1	0.1	0.000016	0.00008	mg/L	101	0	70	130	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	CdDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	101	0	85	115	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	CdDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	CdDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	0.1	0.098	0.000016	0.00008	mg/L	98	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	CdDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	CdDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	0.000055	0.1	0.095	0.00008	0.0004	mg/L	95	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	CdDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	0.000028	0.1	0.093	0.00008	0.0004	mg/L	93	13	70	130	20
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	CdDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	0.000028	0.1	0.082	0.00008	0.0004	mg/L	82	0	70	130	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	102	0	85	115	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10574117	763880_10574117	4072671BLANK_10574117	4072671		MB	REANALYSIS	CdTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:31	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10574117	763880_10574117	4072672LCS_10574117	4072672		LCS	INITIAL	CdTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-19 05:55	EPA 200.8	0	0.1	0.096	0.000016	0.00008	mg/L	96	0	85	115	0
10574117	763880_10574117	SWWW0221-080821MS	4072673	SWWW0221-080821	MS	INITIAL	CdTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 06:03	EPA 200.8	0.00047	0.1	0.1	0.00008	0.0004	mg/L	102	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MS	4072674	SWWW0235-080821	MS	INITIAL	CdTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:00	EPA 200.8	0.00027	0.1	0.098	0.00008	0.0004	mg/L	97	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MSD	4072675	SWWW0235-080821	MSD	INITIAL	CdTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:03	EPA 200.8	0.00027	0.1	0.1	0.00008	0.0004	mg/L	104	7	70	130	20
10574117	763883_10574117	SWWW0243-080821MS	4072681	SWWW0243-080821	MS	INITIAL	CdTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:37	EPA 200.8	0.0001	0.1	0.085	0.00008	0.0004	mg/L	85	0	70	130	0
10574117	763883_10574117	SWWW0251-080821MS	4072683	SWWW0251-080821	MS	INITIAL	CdTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 11:44	EPA 200.8	0.00022	0.1	0.084	0.00008	0.0004	mg/L	84	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MSD	4072682	SWWW0243-080821	MSD	INITIAL	CdTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:40	EPA 200.8	0.0001	0.1	0.081	0.00008	0.0004	mg/L	80	5	70	130	20
10574117	763883_10574117	4072680LCS_10574117	4072680		LCS	INITIAL	CdTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:58	EPA 200.8	0	0.1	0.088	0.000016	0.00008	mg/L	88	0	85	115	0
10574117	763883_10574117	4072679BLANK_10574117	4072679		MB	INITIAL	CdTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:55	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10574117	763896_10574117	4072718BLANK_10574117	4072718		MB	INITIAL	CdTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10574117	763896_10574117	4072719LCS_10574117	4072719		LCS	INITIAL	CdTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.093	0.000016	0.00008	mg/L	93	0	85	115	0
10574117	767016_10574117	4087585BLANK_10574117	4087585		MB	INITIAL	CdTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:24	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10574117	767016_10574117	4087586LCS_10574117	4087586		LCS	INITIAL	CdTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:27	EPA 200.8	0	0.1	0.093	0.000016	0.00008	mg/L	93	0	85	115	0
10574117	767016_10574117	SWWW0234-080921MSD	4087588	SWWW0234-080921	MSD	INITIAL	CdTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:03	EPA 200.8	0	0.1	0.094	0.00008	0.0004	mg/L	94	7	70	130	20
10574117	767016_10574117	SWWW0234-080921MS	4087587	SWWW0234-080921	MS	INITIAL	CdTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:00	EPA 200.8	0	0.1	0.1	0.00008	0.0004	mg/L	101	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	CuDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	0.0061	0.1	0.11	0.0005	0.001	mg/L	103	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	CuDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	0.0061	0.1	0.11	0.0005	0.001	mg/L	101	2	70	130	20
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	CuDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	0.014	0.1	0.12	0.0005	0.001	mg/L	105	0	70	130	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	CuDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	104	0	85	115	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	CuDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	CuDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	CuDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	0.1	0.099	0.0005	0.001	mg/L	99	0	85	115	0
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	CuDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	0.0059	0.1	0.1	0.0025	0.005	mg/L	95	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	CuDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	0.0077	0.1	0.088	0.0025	0.005	mg/L	80	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	CuDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	0.0077	0.1	0.1	0.0025	0.005	mg/L	93	13	70	130	20
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	105	0	85	115	0
10574117	763880_10574117	4072671BLANK_10574117	4072671		MB	REANALYSIS	CuTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:31	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10574117	763880_10574117	4072672LCS_10574117	4072672		LCS	INITIAL	CuTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-19 05:55	EPA 200.8	0	0.1	0.09	0.0005	0.001	mg/L	90	0	85	115	0
10574117	763880_10574117	SWWW0221-080821MS	4072673	SWWW0221-080821	MS	INITIAL	CuTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 06:03	EPA 200.8	0.14	0.1	0.25	0.0025	0.005	mg/L	104	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MSD	4072675	SWWW0235-080821	MSD	INITIAL	CuTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:03	EPA 200.8	0.035	0.1	0.13	0.0025	0.005	mg/L	96	4	70	130	20
10574117	763880_10574117	SWWW0235-080821MS	4072674	SWWW0235-080821	MS	INITIAL	CuTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:00	EPA 200.8	0.035	0.1	0.13	0.0025	0.005	mg/L	90	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MS	4072681	SWWW0243-080821	MS	INITIAL	CuTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:37	EPA 200.8	0.022	0.1	0.11	0.0025	0.005	mg/L	88	0	70	130	0
10574117	763883_10574117	SWWW0251-080821MS	4072683	SWWW0251-080821	MS	INITIAL	CuTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 11:44	EPA 200.8	0.039	0.1	0.12	0.0025	0.005	mg/L	86	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MSD	4072682	SWWW0243-080821	MSD	INITIAL	CuTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:40	EPA 200.8	0.022	0.1	0.1	0.0025	0.005	mg/L	82	5	70	130	20
10574117	763883_10574117	4072680LCS_10574117	4072680		LCS	INITIAL	CuTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:58	EPA 200.8	0	0.1	0.094	0.0005	0.001	mg/L	94	0	85	115	0
10574117	763883_10574117	4072679BLANK_10574117	4072679		MB	INITIAL	CuTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:55	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10574117	763896_10574117	4072718BLANK_10574117	4072718		MB	INITIAL	CuTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10574117	763896_10574117	4072719LCS_10574117	4072719		LCS	INITIAL	CuTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.095	0.0005	0.001	mg/L	95	0	85	115	0
10574117	767016_10574117	4087585BLANK_10574117	4087585		MB	INITIAL	CuTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:24	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10574117	767016_10574117	4087586LCS_10574117	4087586		LCS	INITIAL	CuTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:27	EPA 200.8	0	0.1	0.093	0.0005	0.001	mg/L	93	0	85	115	0
10574117	767016_10574117	SWWW0234-080921MS	4087587	SWWW0234-080921	MS	INITIAL	CuTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:00	EPA 200.8	0.00023	0.1	0.11	0.0025	0.005	mg/L	107	0	70	130	0
10574117	767016_10574117	SWWW0234-080921MSD	4087588	SWWW0234-080921	MSD	INITIAL	CuTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:03	EPA 200.8	0.00023	0.1	0.097	0.0025	0.005	mg/L	96	10	70	130	20
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	FeDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	0.033	2	2.1	0.012	0.05	mg/L	101	0	70	130	20
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	FeDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	0.033	2	2.1	0.012	0.05	mg/L	101	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	FeDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	0.054	2	2.1	0.012	0.05	mg/L	104	0	70	130	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	FeDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	2	2	0.012	0.05	mg/L	101	0	85	115	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	FeDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	FeDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	FeDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	105	0	85	115	0
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	FeDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	0.033	2	2	0.06	0.25	mg/L	98	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	FeDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	0.044	2	1.8	0.06	0.25	mg/L	88	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	FeDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	0.044	2	2.1	0.06	0.25	mg/L	102	14	70	130	20
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10574117	763880_10574117	4072671BLANK_10574117	4072671		MB	REANALYSIS	FeTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:31	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10574117	763880_10574117	4072672LCS_10574117	4072672		LCS	INITIAL	FeTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-19 05:55	EPA 200.8	0	2	2	0.012	0.05	mg/L	102	0	85	115	0
10574117	763880_10574117	SWWW0221-080821MS	4072673	SWWW0221-080821	MS	INITIAL	FeTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 06:03	EPA 200.8	8.4	2	11.2	0.06	0.25	mg/L	139	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MS	4072674	SWWW0235-080821	MS	INITIAL	FeTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:00	EPA 200.8	1.4	2	3.4	0.06	0.25	mg/L	99	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MSD	4072675	SWWW0235-080821	MSD	INITIAL	FeTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:03	EPA 200.8	1.4	2	3.6	0.06	0.25	mg/L	109	6	70	130	20
10574117	763883_10574117	SWWW0243-080821MS	4072681	SWWW0243-080821	MS	INITIAL	FeTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:37	EPA 200.8	1.3	2	3.2	0.06	0.25	mg/L	93	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MSD	4072682	SWWW0243-080821	MSD	INITIAL	FeTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:40	EPA 200.8	1.3	2	2.9	0.06	0.25	mg/L	82	7	70	130	20
10574117	763883_10574117	4072679BLANK_10574117	4072679		MB	INITIAL	FeTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:55	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10574117	763883_10574117	4072680LCS_10574117	4072680		LCS	INITIAL	FeTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:58	EPA 200.8	0	2	2	0.012	0.05	mg/L	100	0	85	115	0
10574117	763883_10574117	SWWW0251-080821MS	4072683	SWWW0251-080821	MS	INITIAL	FeTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 11:44	EPA 200.8	1.8	2	3.6	0.06	0.25	mg/L	91	0	70	130	0
10574117	763896_10574117	4072718BLANK_10574117	4072718		MB	INITIAL	FeTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10574117	763896_10574117	4072719LCS_10574117	4072719		LCS	INITIAL	FeTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	2	2	0.012	0.05	mg/L	102	0	85	115	0
10574117	767016_10574117	4087585BLANK_10574117	4087585		MB	INITIAL	FeTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:24	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10574117	767016_10574117	4087586LCS_10574117	4087586		LCS	INITIAL	FeTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:27	EPA 200.8	0	2	2	0.012	0.05	mg/L	102	0	85	115	0
10574117	767016_10574117	SWWW0234-080921MSD	4087588	SWWW0234-080921	MSD	INITIAL	FeTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:03	EPA 200.8	0.0061	2	2.1	0.06	0.25	mg/L	102	9	70	130	20
10574117	767016_10574117	SWWW0234-080921MS	4087587	SWWW0234-080921	MS	INITIAL	FeTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:00	EPA 200.8	0.0061	2	2.2	0.06	0.25	mg/L	112	0	70	130	0
10574117	763829_10574117	SWWW0235-080821MSD	4072566	SWWW0235-080821	MSD	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 12:15	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	5	70	130	20
10574117	763829_10574117	SWWW0235-080821MS	4072565	SWWW0235-080821	MS	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 12:14	EPA 245.1	0	0.005	0.0055	0.000045	0.0002	mg/L	109	0	70	130	0
10574117	763829_10574117	SWWW0223-080821MS	4072564	SWWW0223-080821	MS	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 11:49	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	103	0	70	130	0
10574117	763829_10574117	4072562BLANK_10574117	4072562		MB	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 11:42	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10574117	763829_10574117	4072563LCS_10574117	4072563		LCS	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 11:43	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	105	0	85	115	0
10574117	763830_10574117	4072567BLANK_10574117	4072567		MB	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 12:28	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10574117	763830_10574117	4072568LCS_10574117	4072568		LCS	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 12:30	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	107	0	85	115	0
10574117	763830_10574117	SWWW0243-080821MSD	4072570	SWWW0243-080821	MSD	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 12:37	EPA 245.1	0.00001	0.005	0.0055	0.000045	0.0002	mg/L	110	4	70	130	20
10574117	763830_10574117	SWWW0243-080821MS	4072569	SWWW0243-080821	MS	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 12:36	EPA 245.1	0.00001	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
10574117	763830_10574117	SWWW0252-080821MS	4072571	SWWW0252-080821	MS	INITIAL	HgDis	D	1	2021-08-17 09:31	EPA 245.1	2021-08-19 12:55	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10574117	763832_10574117	4072577BLANK_10574117	4072577		MB	INITIAL	HgDis	D	1	2021-08-17 02:50	EPA 245.1	2021-08-19 10:56	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10574117	763832_10574117	4072578LCS_10574117	4072578		LCS	INITIAL	HgDis	D	1	2021-08-17 02:50	EPA 245.1	2021-08-19 10:58	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	99	0	85	115	0
10574117	763891_10574117	4072695BLANK_10574117	4072695		MB	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 02:02	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10574117	763891_10574117	4072696LCS_10574117	4072696		LCS	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 02:03	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	85	115	0
10574117	763891_10574117	SWWW0222-080821MS	4072697	SWWW0222-080821	MS	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 02:07	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
10574117	763891_10574117	SWWW0235-080821MSD	4072699	SWWW0235-080821	MSD	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 02:35	EPA 245.1	0.00002	0.005	0.0052	0.000045	0.0002	mg/L	104	2	70	130	20
10574117	763891_10574117	SWWW0235-080821MS	4072698	SWWW0235-080821	MS	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 02:34	EPA 245.1	0.00002	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10574117	763892_10574117	SWWW0243-080821MSD	4072703	SWWW0243-080821	MSD	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 01:24	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	1	70	130	20
10574117	763892_10574117	SWWW0243-080821MS	4072702	SWWW0243-080821	MS	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 01:22	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10574117	763892_10574117	4072700BLANK_10574117	4072700		MB	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 01:15	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10574117	763892_10574117	4072701LCS_10574117	4072701		LCS	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 01:16	EPA 245.1	0	0.005	0.0055	0.000045	0.0002	mg/L	109	0	85	115	0
10574117	763892_10574117	SWWW0252-080821MS	4072704	SWWW0252-080821	MS	INITIAL	HgTR	T	1	2021-08-18 05:51	EPA 245.1	2021-08-19 01:41	EPA 245.1	0.000038	0.005	0.005	0.000045	0.0002	mg/L	100	0	70	130	0
10574117	763894_10574117	4072710BLANK_10574117	4072710		MB	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 02:48	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10574117	763894_10574117	4072711LCS_10574117	4072711		LCS	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 02:50	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	101	0	85	115	0
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	MgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	2.9	2	4.9	0.0034	0.01	mg/L	103	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	MgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	8	2	10.1	0.0034	0.01	mg/L	109	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	MgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	8	2	10.4	0.0034	0.01	mg/L	123	3	70	130	20
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	MgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	2	2.1	0.0034	0.01	mg/L	104	0	85	115	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	MgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.0034	0.0034	0.01	mg/L	0	0	0	0	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	MgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	2	2	0.0034	0.01	mg/L	101	0	85	115	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	MgDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.0034	0.0034	0.01	mg/L	0	0	0	0	0
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	MgDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	5.7	2	6.2	0.017	0.05	mg/L	28	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	MgDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	5.7	2	7.2	0.017	0.05	mg/L	78	15	70	130	20
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	MgDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	6.1	2	7.6	0.017	0.05	mg/L	75	0	70	130	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	MgDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	2	2.1	0.0034	0.01	mg/L	107	0	85	115	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	MgDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.0034	0.0034	0.01	mg/L	0	0	0	0	0
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	MoDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	0.0019	0.1	0.1	0.000094	0.0005	mg/L	98	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	MoDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	0.071	0.1	0.18	0.000094	0.0005	mg/L	110	4	70	130	20
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	MoDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	0.071	0.1	0.17	0.000094	0.0005	mg/L	102	0	70	130	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	MoDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	MoDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	0.1	0.096	0.000094	0.0005	mg/L	96	0	85	115	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	MoDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	MoDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	100	0	85	115	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	MoDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	0.0043	0.1	0.096	0.00047	0.0025	mg/L	92	13	70	130	20
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	MoDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	0.082	0.1	0.17	0.00047	0.0025	mg/L	83	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	MoDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	0.0043	0.1	0.084	0.00047	0.0025	mg/L	80	0	70	130	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	MoDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	MoDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.098	0.000094	0.0005	mg/L	98	0	85	115	0
10574117	763880_10574117	4072671BLANK_10574117	4072671		MB	REANALYSIS	MoTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:31	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10574117	763880_10574117	4072672LCS_10574117	4072672		LCS	INITIAL	MoTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-19 05:55	EPA 200.8	0	0.1	0.096	0.000094	0.0005	mg/L	96	0	85	115	0
10574117	763880_10574117	SWWW0221-080821MS	4072673	SWWW0221-080821	MS	INITIAL	MoTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 06:03	EPA 200.8	0.0063	0.1	0.1	0.00047	0.0025	mg/L	96	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MSD	4072675	SWWW0235-080821	MSD	INITIAL	MoTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:03	EPA 200.8	0.076	0.1	0.18	0.00047	0.0025	mg/L	101	7	70	130	20
10574117	763880_10574117	SWWW0235-080821MS	4072674	SWWW0235-080821	MS	INITIAL	MoTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:00	EPA 200.8	0.076	0.1	0.16	0.00047	0.0025	mg/L	88	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MS	4072681	SWWW0243-080821	MS	INITIAL	MoTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:37	EPA 200.8	0.0046	0.1	0.091	0.00047	0.0025	mg/L	86	0	70	130	0
10574117	763883_10574117	SWWW0251-080821MS	4072683	SWWW0251-080821	MS	INITIAL	MoTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 11:44	EPA 200.8	0.079	0.1	0.16	0.00047	0.0025	mg/L	78	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MSD	4072682	SWWW0243-080821	MSD	INITIAL	MoTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:40	EPA 200.8	0.0046	0.1	0.086	0.00047	0.0025	mg/L	81	5	70	130	20
10574117	763883_10574117	4072679BLANK_10574117	4072679		MB	INITIAL	MoTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:55	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10574117	763883_10574117	4072680LCS_10574117	4072680		LCS	INITIAL	MoTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:58	EPA 200.8	0	0.1	0.092	0.000094	0.0005	mg/L	92	0	85	115	0
10574117	763896_10574117	4072718BLANK_10574117	4072718		MB	INITIAL	MoTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10574117	763896_10574117	4072719LCS_10574117	4072719		LCS	INITIAL	MoTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.095	0.000094	0.0005	mg/L	95	0	85	115	0
10574117	767016_10574117	4087585BLANK_10574117	4087585		MB	INITIAL	MoTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:24	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10574117	767016_10574117	4087586LCS_10574117	4087586		LCS	INITIAL	MoTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:27	EPA 200.8	0	0.1	0.095	0.000094	0.0005	mg/L	95	0	85	115	0
10574117	767016_10574117	SWWW0234-080921MSD	4087588	SWWW0234-080921	MSD	INITIAL	MoTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:03	EPA 200.8	0	0.1	0.094	0.00047	0.0025	mg/L	94	8	70	130	20
10574117	767016_10574117	SWWW0234-080921MS	4087587	SWWW0234-080921	MS	INITIAL	MoTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:00	EPA 200.8	0	0.1	0.1	0.00047	0.0025	mg/L	102	0	70	130	0
10574117	764275_10574117	4074099BLANK_10574117	4074099		MB	INITIAL	NO3/NO2-N	T	1	2021-08-18 11:50	METHOD	2021-08-18 11:50	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10574117	764275_10574117	4074100LCS_10574117	4074100		LCS	INITIAL	NO3/NO2-N	T	1	2021-08-18 11:51	METHOD	2021-08-18 11:51	SM 4500-NO3-H	0	2.5	2.5	0.078	0.2	mg/L	99	0	90	110	0
10574117	765249_10574117	4079051BLANK_10574117	4079051		MB	INITIAL	NO3/NO2-N	T	1	2021-08-23 09:41	METHOD	2021-08-23 09:41	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10574117	765249_10574117	4079052LCS_10574117	4079052		LCS	INITIAL	NO3/NO2-N	T	1	2021-08-23 09:42	METHOD	2021-08-23 09:42	SM 4500-NO3-H	0	2.5	2.5	0.078	0.2	mg/L	100	0	90	110	0
10574117	765249_10574117	SWWW0235-080821MS	4079053	SWWW0235-080821	MS	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:00	METHOD	2021-08-23 10:00	SM 4500-NO3-H	1.1	2.5	3.6	0.078	0.2	mg/L	100	0	80	120	0
10574117	765249_10574117	SWWW0243-080821MSD	4079056	SWWW0243-080821	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:15	METHOD	2021-08-23 10:15	SM 4500-NO3-H	0.66	2.5	3.2	0.078	0.2	mg/L	101	1	80	120	20
10574117	765249_10574117	SWWW0235-080821MSD	4079054	SWWW0235-080821	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:01	METHOD	2021-08-23 10:01	SM 4500-NO3-H	1.1	2.5	3.7	0.078	0.2	mg/L	102	1	80	120	20
10574117	765249_10574117	SWWW0243-080821MS	4079055	SWWW0243-080821	MS	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:14	METHOD	2021-08-23 10:14	SM 4500-NO3-H	0.66	2.5	3.2	0.078	0.2	mg/L	103	0	80	120	0
10574117	765250_10574117	SWWW0244-080821MS	4079059	SWWW0244-080821	MS	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:19	METHOD	2021-08-23 10:19	SM 4500-NO3-H	0.53	2.5	3.1	0.078	0.2	mg/L	103	0	80	120	0
10574117	765250_10574117	SWWW0244-080821MSD	4079060	SWWW0244-080821	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:22	METHOD	2021-08-23 10:22	SM 4500-NO3-H	0.53	2.5	3.2	0.078	0.2	mg/L	106	2	80	120	20
10574117	765250_10574117	SWWW0245-080821MS	4079061	SWWW0245-080821	MS	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:24	METHOD	2021-08-23 10:24	SM 4500-NO3-H	0.64	2.5	3.2	0.078	0.2	mg/L	103	0	80	120	0
10574117	765250_10574117	SWWW0245-080821MSD	4079062	SWWW0245-080821	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:25	METHOD	2021-08-23 10:25	SM 4500-NO3-H	0.64	2.5	3.3	0.078	0.2	mg/L	105	2	80	120	20
10574117	765250_10574117	4079057BLANK_10574117	4079057		MB	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:15	METHOD	2021-08-23 10:15	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10574117	765250_10574117	4079058LCS_10574117	4079058		LCS	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:17	METHOD	2021-08-23 10:17	SM 4500-NO3-H	0	2.5	2.6	0.078	0.2	mg/L	103	0	90	110	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10574117	765251_10574117	4079063BLANK_10574117	4079063		MB	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:49	METHOD	2021-08-23 10:49	SM 4500-NO3-H	0	0	0.088	0.078	0.2	mg/L	0	0	0	0	0
10574117	765251_10574117	4079064LCS_10574117	4079064		LCS	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:49	METHOD	2021-08-23 10:49	SM 4500-NO3-H	0	2.5	2.6	0.078	0.2	mg/L	104	0	90	110	0
10574117	765251_10574117	SWWW0264-080821MS	4079065	SWWW0264-080821	MS	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:53	METHOD	2021-08-23 10:53	SM 4500-NO3-H	1.2	2.5	3.8	0.078	0.2	mg/L	104	0	80	120	0
10574117	765251_10574117	SWWW0264-080821MSD	4079066	SWWW0264-080821	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-23 10:53	METHOD	2021-08-23 10:53	SM 4500-NO3-H	1.2	2.5	3.7	0.078	0.2	mg/L	102	2	80	120	20
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	PbDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	0.00048	0.1	0.1	0.000028	0.0001	mg/L	104	0	70	130	0
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	PbDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	0.00044	0.1	0.11	0.000028	0.0001	mg/L	105	1	70	130	20
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	PbDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	0.00044	0.1	0.1	0.000028	0.0001	mg/L	104	0	70	130	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	PbDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	105	0	85	115	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	PbDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	PbDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	PbDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	0.1	0.098	0.000028	0.0001	mg/L	98	0	85	115	0
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	PbDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	0.00033	0.1	0.093	0.00014	0.0005	mg/L	93	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	PbDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	0.00023	0.1	0.093	0.00014	0.0005	mg/L	93	14	70	130	20
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	PbDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	0.00023	0.1	0.08	0.00014	0.0005	mg/L	80	0	70	130	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	105	0	85	115	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10574117	763880_10574117	4072671BLANK_10574117	4072671		MB	INITIAL	PbTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-19 05:51	EPA 200.8	0	0	0.000075	0.000028	0.0001	mg/L	0	0	0	0	0
10574117	763880_10574117	4072672LCS_10574117	4072672		LCS	INITIAL	PbTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-19 05:55	EPA 200.8	0	0.1	0.093	0.000028	0.0001	mg/L	93	0	85	115	0
10574117	763880_10574117	SWWW0221-080821MS	4072673	SWWW0221-080821	MS	INITIAL	PbTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 06:03	EPA 200.8	0.037	0.1	0.14	0.00014	0.0005	mg/L	101	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MS	4072674	SWWW0235-080821	MS	INITIAL	PbTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:00	EPA 200.8	0.017	0.1	0.11	0.00014	0.0005	mg/L	91	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MSD	4072675	SWWW0235-080821	MSD	INITIAL	PbTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:03	EPA 200.8	0.017	0.1	0.11	0.00014	0.0005	mg/L	98	6	70	130	20
10574117	763883_10574117	SWWW0243-080821MS	4072681	SWWW0243-080821	MS	INITIAL	PbTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:37	EPA 200.8	0.0052	0.1	0.091	0.00014	0.0005	mg/L	86	0	70	130	0
10574117	763883_10574117	SWWW0251-080821MS	4072683	SWWW0251-080821	MS	INITIAL	PbTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 11:44	EPA 200.8	0.016	0.1	0.098	0.00014	0.0005	mg/L	83	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MSD	4072682	SWWW0243-080821	MSD	INITIAL	PbTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:40	EPA 200.8	0.0052	0.1	0.086	0.00014	0.0005	mg/L	81	5	70	130	20
10574117	763883_10574117	4072680LCS_10574117	4072680		LCS	INITIAL	PbTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:58	EPA 200.8	0	0.1	0.09	0.000028	0.0001	mg/L	90	0	85	115	0
10574117	763883_10574117	4072679BLANK_10574117	4072679		MB	INITIAL	PbTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:55	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10574117	763896_10574117	4072718BLANK_10574117	4072718		MB	INITIAL	PbTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10574117	763896_10574117	4072719LCS_10574117	4072719		LCS	INITIAL	PbTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.093	0.000028	0.0001	mg/L	93	0	85	115	0
10574117	767016_10574117	4087585BLANK_10574117	4087585		MB	INITIAL	PbTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:24	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10574117	767016_10574117	4087586LCS_10574117	4087586		LCS	INITIAL	PbTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:27	EPA 200.8	0	0.1	0.096	0.000028	0.0001	mg/L	96	0	85	115	0
10574117	767016_10574117	SWWW0234-080921MS	4087587	SWWW0234-080921	MS	INITIAL	PbTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:00	EPA 200.8	0.000064	0.1	0.11	0.00014	0.0005	mg/L	106	0	70	130	0
10574117	767016_10574117	SWWW0234-080921MSD	4087588	SWWW0234-080921	MSD	INITIAL	PbTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:03	EPA 200.8	0.000064	0.1	0.097	0.00014	0.0005	mg/L	97	8	70	130	20
10574117	764347_10574117	4074420BLANK_10574117	4074420		MB	INITIAL	SO4	T	1	2021-08-20 04:41	METHOD	2021-08-20 04:41	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10574117	764347_10574117	4074421LCS_10574117	4074421		LCS	INITIAL	SO4	T	1	2021-08-20 04:41	METHOD	2021-08-20 04:41	ASTM D516-90-02	0	20	19.3	1.2	2.5	mg/L	97	0	80	120	0
10574117	764347_10574117	4074422LCSD_10574117	4074422	4074421LCS_10574117	LCSD	INITIAL	SO4	T	1	2021-08-20 04:42	METHOD	2021-08-20 04:42	ASTM D516-90-02	0	20	19.2	1.2	2.5	mg/L	96	0	80	120	20
10574117	764632_10574117	4075855BLANK_10574117	4075855		MB	INITIAL	SO4	T	1	2021-08-23 04:03	METHOD	2021-08-23 04:03	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10574117	764632_10574117	4075856LCS_10574117	4075856		LCS	INITIAL	SO4	T	1	2021-08-23 04:04	METHOD	2021-08-23 04:04	ASTM D516-90-02	0	20	20.7	1.2	2.5	mg/L	104	0	80	120	0
10574117	764632_10574117	4075857LCSD_10574117	4075857	4075856LCS_10574117	LCSD	INITIAL	SO4	T	1	2021-08-23 04:04	METHOD	2021-08-23 04:04	ASTM D516-90-02	0	20	21.7	1.2	2.5	mg/L	108	5	80	120	20
10574117	764632_10574117	SWWW0235-080821MS	4075858	SWWW0235-080821	MS	INITIAL	SO4	T	25	2021-08-23 05:20	METHOD	2021-08-23 05:20	ASTM D516-90-02	160	100	238	30.2	62.5	mg/L	78	0	80	120	0
10574117	764632_10574117	SWWW0235-080821MSD	4075859	SWWW0235-080821	MSD	INITIAL	SO4	T	25	2021-08-23 05:20	METHOD	2021-08-23 05:20	ASTM D516-90-02	160	100	272	30.2	62.5	mg/L	112	13	80	120	30
10574117	764632_10574117	SWWW0243-080821MS	4075860	SWWW0243-080821	MS	INITIAL	SO4	T	2	2021-08-23 05:10	METHOD	2021-08-23 05:10	ASTM D516-90-02	30.3	40	77.8	2.4	5	mg/L	119	0	80	120	0
10574117	764632_10574117	SWWW0243-080821MSD	4075861	SWWW0243-080821	MSD	INITIAL	SO4	T	2	2021-08-23 05:10	METHOD	2021-08-23 05:10	ASTM D516-90-02	30.3	40	71.8	2.4	5	mg/L	104	8	80	120	30
10574117	764633_10574117	4075866BLANK_10574117	4075866		MB	INITIAL	SO4	T	1	2021-08-20 04:30	METHOD	2021-08-20 04:30	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10574117	764633_10574117	4075867LCS_10574117	4075867		LCS	INITIAL	SO4	T	1	2021-08-19 12:54	METHOD	2021-08-19 12:54	ASTM D516-90-02	0	20	17.2	1.2	2.5	mg/L	86	0	80	120	0
10574117	764633_10574117	4075868LCSD_10574117	4075868	4075867LCS_10574117	LCSD	INITIAL	SO4	T	1	2021-08-19 12:55	METHOD	2021-08-19 12:55	ASTM D516-90-02	0	20	17.3	1.2	2.5	mg/L	86	1	80	120	20
10574117	764633_10574117	SWWW0252-080821MS	4075869	SWWW0252-080821	MS	INITIAL	SO4	T	10	2021-08-19 04:13	METHOD	2021-08-19 04:13	ASTM D516-90-02	164	200	352	12.1	25	mg/L	94	0	80	120	0
10574117	764633_10574117	SWWW0252-080821MSD	4075870	SWWW0252-080821	MSD	INITIAL	SO4	T	10	2021-08-19 04:14	METHOD	2021-08-19 04:14	ASTM D516-90-02	164	200	339	12.1	25	mg/L	87	4	80	120	30
10574117	766024_10574117	4082368BLANK_10574117	4082368		MB	INITIAL	SO4	T	1	2021-08-25 03:05	METHOD	2021-08-25 03:05	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10574117	766024_10574117	4082369LCS_10574117	4082369		LCS	INITIAL	SO4	T	1	2021-08-25 03:04	METHOD	2021-08-25 03:04	ASTM D516-90-02	0	20	20.1	1.2	2.5	mg/L	101	0	80	120	0
10574117	766024_10574117	4082370LCSD_10574117	4082370	4082369LCS_10574117	LCSD	INITIAL	SO4	T	1	2021-08-25 03:04	METHOD	2021-08-25 03:04	ASTM D516-90-02	0	20	19.9	1.2	2.5	mg/L	100	1	80	120	20
10574117	762980_10574117	SWWW0221-080821DUP	4067795	SWWW0221-080821	LR	INITIAL	TDS	D	1	2021-08-13 09:28	METHOD	2021-08-13 09:28	SM 2540C	88	0	112	5	10	mg/L	0	24	0	0	5
10574117	762980_10574117	SWWW0235-080821DUP	4067796	SWWW0235-080821	LR	INITIAL	TDS	D	1	2021-08-13 09:28	METHOD	2021-08-13 09:28	SM 2540C	384	0	388	5	10	mg/L	0	1	0	0	5

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10574117	762980_10574117	4067793BLANK_10574117	4067793		MB	INITIAL	TDS	D	1	2021-08-13 09:28	METHOD	2021-08-13 09:28	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	762980_10574117	4067794LCS_10574117	4067794		LCS	INITIAL	TDS	D	1	2021-08-13 09:28	METHOD	2021-08-13 09:28	SM 2540C	0	1000	1010	10	20	mg/L	101	0	80	120	0
10574117	762982_10574117	4067801BLANK_10574117	4067801		MB	INITIAL	TDS	D	1	2021-08-13 11:28	METHOD	2021-08-13 11:28	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	762982_10574117	4067802LCS_10574117	4067802		LCS	INITIAL	TDS	D	1	2021-08-13 11:28	METHOD	2021-08-13 11:28	SM 2540C	0	1000	1010	10	20	mg/L	101	0	80	120	0
10574117	762982_10574117	SWWW0242-080821DUP	4067803	SWWW0242-080821	LR	INITIAL	TDS	D	1	2021-08-13 11:28	METHOD	2021-08-13 11:28	SM 2540C	207	0	195	5	10	mg/L	0	6	0	0	5
10574117	762982_10574117	SWWW0243-080821DUP	4067804	SWWW0243-080821	LR	INITIAL	TDS	D	1	2021-08-13 11:28	METHOD	2021-08-13 11:28	SM 2540C	93	0	141	5	10	mg/L	0	41	0	0	5
10574117	762988_10574117	4067831BLANK_10574117	4067831		MB	INITIAL	TDS	D	1	2021-08-12 03:15	METHOD	2021-08-12 03:15	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	762988_10574117	4067832LCS_10574117	4067832		LCS	INITIAL	TDS	D	1	2021-08-12 03:15	METHOD	2021-08-12 03:15	SM 2540C	0	1000	980	10	20	mg/L	98	0	80	120	0
10574117	763427_10574117	4070186BLANK_10574117	4070186		MB	INITIAL	TDS	D	1	2021-08-16 06:18	METHOD	2021-08-16 06:18	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	763427_10574117	4070187LCS_10574117	4070187		LCS	INITIAL	TDS	D	1	2021-08-16 06:18	METHOD	2021-08-16 06:18	SM 2540C	0	1000	1010	10	20	mg/L	101	0	80	120	0
10574117	763568_10574117	4071391BLANK_10574117	4071391		MB	INITIAL	TDS	D	1	2021-08-15 03:26	METHOD	2021-08-15 03:26	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	763568_10574117	4071392LCS_10574117	4071392		LCS	INITIAL	TDS	D	1	2021-08-15 03:26	METHOD	2021-08-15 03:26	SM 2540C	0	1000	1010	10	20	mg/L	101	0	80	120	0
10574117	762981_10574117	4067797BLANK_10574117	4067797		MB	INITIAL	TSS	T	1	2021-08-13 09:17	METHOD	2021-08-13 09:17	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	762981_10574117	4067798LCS_10574117	4067798		LCS	INITIAL	TSS	T	1	2021-08-13 09:17	METHOD	2021-08-13 09:17	SM 2540D	0	100	83.4	10	20	mg/L	83	0	80	120	0
10574117	762981_10574117	SWWW0235-080821DUP	4067800	SWWW0235-080821	LR	INITIAL	TSS	T	1	2021-08-13 09:17	METHOD	2021-08-13 09:17	SM 2540D	42.3	0	34.1	5	10	mg/L	0	21	0	0	5
10574117	762981_10574117	SWWW0221-080821DUP	4067799	SWWW0221-080821	LR	INITIAL	TSS	T	1	2021-08-13 09:17	METHOD	2021-08-13 09:17	SM 2540D	197	0	194	5	10	mg/L	0	1	0	0	5
10574117	762985_10574117	SWWW0242-080821DUP	4067814	SWWW0242-080821	LR	INITIAL	TSS	T	1	2021-08-13 11:23	METHOD	2021-08-13 11:23	SM 2540D	9.1	0	8.6	5	10	mg/L	0	0	0	0	5
10574117	762985_10574117	SWWW0243-080821DUP	4067815	SWWW0243-080821	LR	INITIAL	TSS	T	1	2021-08-13 11:23	METHOD	2021-08-13 11:23	SM 2540D	31	0	31.3	5	10	mg/L	0	1	0	0	5
10574117	762985_10574117	4067812BLANK_10574117	4067812		MB	INITIAL	TSS	T	1	2021-08-13 11:23	METHOD	2021-08-13 11:23	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	762985_10574117	4067813LCS_10574117	4067813		LCS	INITIAL	TSS	T	1	2021-08-13 11:23	METHOD	2021-08-13 11:23	SM 2540D	0	100	93	10	20	mg/L	93	0	80	120	0
10574117	762991_10574117	4067838BLANK_10574117	4067838		MB	INITIAL	TSS	T	1	2021-08-13 01:33	METHOD	2021-08-13 01:33	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	762991_10574117	4067839LCS_10574117	4067839		LCS	INITIAL	TSS	T	1	2021-08-13 01:33	METHOD	2021-08-13 01:33	SM 2540D	0	100	86	10	20	mg/L	86	0	80	120	0
10574117	762991_10574117	SWWW0263-080821DUP	4067840	SWWW0263-080821	LR	INITIAL	TSS	T	1	2021-08-13 01:33	METHOD	2021-08-13 01:33	SM 2540D	27.4	0	28.4	5	10	mg/L	0	4	0	0	5
10574117	762991_10574117	SWWW0264-080821DUP	4067841	SWWW0264-080821	LR	INITIAL	TSS	T	1	2021-08-13 01:33	METHOD	2021-08-13 01:33	SM 2540D	43.5	0	47.3	5	10	mg/L	0	8	0	0	5
10574117	763432_10574117	4070204BLANK_10574117	4070204		MB	INITIAL	TSS	T	1	2021-08-16 10:48	METHOD	2021-08-16 10:48	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	763432_10574117	4070205LCS_10574117	4070205		LCS	INITIAL	TSS	T	1	2021-08-16 10:48	METHOD	2021-08-16 10:48	SM 2540D	0	100	97.2	10	20	mg/L	97	0	80	120	0
10574117	763619_10574117	4071528BLANK_10574117	4071528		MB	INITIAL	TSS	T	1	2021-08-16 02:56	METHOD	2021-08-16 02:56	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10574117	763619_10574117	4071529LCS_10574117	4071529		LCS	INITIAL	TSS	T	1	2021-08-16 02:56	METHOD	2021-08-16 02:56	SM 2540D	0	100	86.4	10	20	mg/L	86	0	80	120	0
10574117	763825_10574117	4072542BLANK_10574117	4072542		MB	INITIAL	ZnDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:08	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10574117	763825_10574117	4072543LCS_10574117	4072543		LCS	INITIAL	ZnDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:12	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	101	0	85	115	0
10574117	763825_10574117	SWWW0235-080821MSD	4072546	SWWW0235-080821	MSD	INITIAL	ZnDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:31	EPA 200.8	0.028	0.1	0.13	0.002	0.005	mg/L	99	0	70	130	20
10574117	763825_10574117	SWWW0235-080821MS	4072545	SWWW0235-080821	MS	INITIAL	ZnDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 06:28	EPA 200.8	0.028	0.1	0.13	0.002	0.005	mg/L	99	0	70	130	0
10574117	763825_10574117	SWWW0221-080821MS	4072544	SWWW0221-080821	MS	INITIAL	ZnDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-18 04:22	EPA 200.8	0.0079	0.1	0.11	0.002	0.005	mg/L	102	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MS	4072549	SWWW0243-080821	MS	INITIAL	ZnDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:47	EPA 200.8	0.0085	0.1	0.089	0.0098	0.025	mg/L	80	0	70	130	0
10574117	763826_10574117	SWWW0243-080821MSD	4072550	SWWW0243-080821	MSD	INITIAL	ZnDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 12:50	EPA 200.8	0.0085	0.1	0.1	0.0098	0.025	mg/L	92	13	70	130	20
10574117	763826_10574117	SWWW0251-080821MS	4072551	SWWW0251-080821	MS	INITIAL	ZnDis	D	5	2021-08-17 01:41	EPA 200.8	2021-08-19 01:53	EPA 200.8	0.012	0.1	0.11	0.0098	0.025	mg/L	95	0	70	130	0
10574117	763826_10574117	4072548LCS_10574117	4072548		LCS	INITIAL	ZnDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:08	EPA 200.8	0	0.1	0.095	0.002	0.005	mg/L	95	0	85	115	0
10574117	763826_10574117	4072547BLANK_10574117	4072547		MB	INITIAL	ZnDis	D	1	2021-08-17 01:41	EPA 200.8	2021-08-19 12:05	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10574117	763828_10574117	4072557BLANK_10574117	4072557		MB	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10574117	763828_10574117	4072558LCS_10574117	4072558		LCS	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	102	0	85	115	0
10574117	763880_10574117	4072672LCS_10574117	4072672		LCS	INITIAL	ZnTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-19 05:55	EPA 200.8	0	0.1	0.091	0.002	0.005	mg/L	91	0	85	115	0
10574117	763880_10574117	4072671BLANK_10574117	4072671		MB	REANALYSIS	ZnTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 12:31	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10574117	763880_10574117	SWWW0221-080821MS	4072673	SWWW0221-080821	MS	INITIAL	ZnTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 06:03	EPA 200.8	0.17	0.1	0.29	0.0098	0.025	mg/L	116	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MS	4072674	SWWW0235-080821	MS	INITIAL	ZnTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:00	EPA 200.8	0.079	0.1	0.17	0.0098	0.025	mg/L	88	0	70	130	0
10574117	763880_10574117	SWWW0235-080821MSD	4072675	SWWW0235-080821	MSD	INITIAL	ZnTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-19 08:03	EPA 200.8	0.079	0.1	0.18	0.0098	0.025	mg/L	96	5	70	130	20
10574117	763883_10574117	SWWW0251-080821MS	4072683	SWWW0251-080821	MS	INITIAL	ZnTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 11:44	EPA 200.8	0.065	0.1	0.15	0.0098	0.025	mg/L	84	0	70	130	0
10574117	763883_10574117	SWWW0243-080821MSD	4072682	SWWW0243-080821	MSD	INITIAL	ZnTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:40	EPA 200.8	0.033	0.1	0.11	0.0098	0.025	mg/L	79	7	70	130	20
10574117	763883_10574117	SWWW0243-080821MS	4072681	SWWW0243-080821	MS	INITIAL	ZnTR	T	5	2021-08-18 05:43	EPA 200.8	2021-08-23 10:37	EPA 200.8	0.033	0.1	0.12	0.0098	0.025	mg/L	87	0	70	130	0
10574117	763883_10574117	4072680LCS_10574117	4072680		LCS	INITIAL	ZnTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:58	EPA 200.8	0	0.1	0.09	0.002	0.005	mg/L	90	0	85	115	0
10574117	763883_10574117	4072679BLANK_10574117	4072679		MB	INITIAL	ZnTR	T	1	2021-08-18 05:43	EPA 200.8	2021-08-23 09:55	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10574117	763896_10574117	4072718BLANK_10574117	4072718		MB	INITIAL	ZnTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10574117	763896_10574117	4072719LCS_10574117	4072719		LCS	INITIAL	ZnTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.093	0.002	0.005	mg/L	93	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10574117	767016_10574117	4087585BLANK_10574117	4087585		MB	INITIAL	ZnTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:24	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10574117	767016_10574117	4087586LCS_10574117	4087586		LCS	INITIAL	ZnTR	T	1	2021-08-31 07:30	EPA 200.8	2021-09-01 07:27	EPA 200.8	0	0.1	0.091	0.002	0.005	mg/L	91	0	85	115	0
10574117	767016_10574117	SWWW0234-080921MSD	4087588	SWWW0234-080921	MSD	INITIAL	ZnTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:03	EPA 200.8	0.00071	0.1	0.094	0.0098	0.025	mg/L	93	9	70	130	20
10574117	767016_10574117	SWWW0234-080921MS	4087587	SWWW0234-080921	MS	INITIAL	ZnTR	T	5	2021-08-31 07:30	EPA 200.8	2021-09-01 08:00	EPA 200.8	0.00071	0.1	0.1	0.0098	0.025	mg/L	102	0	70	130	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	INITIAL	AgDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:15	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	INITIAL	AgDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:18	EPA 200.8	0	0.05	0.05	0.00016	0.0005	mg/L	100	0	85	115	0
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	INITIAL	AgDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:44	EPA 200.8	0.000054	0.05	0.043	0.00082	0.0025	mg/L	86	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	INITIAL	AgDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:47	EPA 200.8	0.000054	0.05	0.042	0.00082	0.0025	mg/L	85	2	70	130	20
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	INITIAL	AgDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 11:01	EPA 200.8	0.000016	0.05	0.045	0.00082	0.0025	mg/L	89	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	AgDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	0.000089	0.05	0.055	0.00016	0.0005	mg/L	110	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	AgDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	0.000089	0.05	0.054	0.00016	0.0005	mg/L	108	1	70	130	20
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	AgDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	AgDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	0.05	0.057	0.00016	0.0005	mg/L	115	0	85	115	0
10575368	765155_10575368	4078773BLANK_10575368	4078773		MB	INITIAL	AgTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:44	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10575368	765155_10575368	4078774LCS_10575368	4078774		LCS	INITIAL	AgTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:47	EPA 200.8	0	0.05	0.058	0.00016	0.0005	mg/L	115	0	85	115	0
10575368	765155_10575368	SWWW0275-081821MS	4078777	SWWW0275-081821	MS	REANALYSIS	AgTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:53	EPA 200.8	0.00022	0.05	0.052	0.00016	0.0005	mg/L	103	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MSD	4078776	SWWW0265-081821	MSD	INITIAL	AgTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:04	EPA 200.8	0.00047	0.05	0.057	0.00016	0.0005	mg/L	113	1	70	130	20
10575368	765155_10575368	SWWW0265-081821MS	4078775	SWWW0265-081821	MS	INITIAL	AgTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:01	EPA 200.8	0.00047	0.05	0.058	0.00016	0.0005	mg/L	114	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MS	4078782	SWWW0289-081821	MS	INITIAL	AgTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:17	EPA 200.8	0.00022	0.05	0.056	0.00016	0.0005	mg/L	112	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MSD	4078783	SWWW0289-081821	MSD	INITIAL	AgTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:21	EPA 200.8	0.00022	0.05	0.055	0.00016	0.0005	mg/L	109	2	70	130	20
10575368	765156_10575368	4078778BLANK_10575368	4078778		MB	INITIAL	AgTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:04	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10575368	765156_10575368	4078779LCS_10575368	4078779		LCS	REANALYSIS	AgTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-31 11:22	EPA 200.8	0	0.05	0.055	0.00016	0.0005	mg/L	109	0	85	115	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	INITIAL	AlDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:18	EPA 200.8	0	2	1.9	0.008	0.02	mg/L	97	0	85	115	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	INITIAL	AlDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:15	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	INITIAL	AlDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 11:01	EPA 200.8	0.015	2	1.7	0.04	0.1	mg/L	86	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	INITIAL	AlDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:47	EPA 200.8	0.013	2	1.6	0.04	0.1	mg/L	79	0	70	130	20
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	INITIAL	AlDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:44	EPA 200.8	0.013	2	1.6	0.04	0.1	mg/L	79	0	70	130	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	AlDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	2	2.2	0.008	0.02	mg/L	112	0	85	115	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	AlDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	0.58	2	3	0.008	0.02	mg/L	120	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	AlDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	0.58	2	3.1	0.008	0.02	mg/L	124	3	70	130	20
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	AlDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10575368	767175_10575368	SWWW0275-081821MS	4088179	SWWW0275-081821	MS	INITIAL	ALK_CaCO3	T	1	2021-08-31 12:30	METHOD	2021-08-31 12:30	SM 2320B	101	40	143	1.8	5	mg/L	104	0	80	120	0
10575368	767175_10575368	SWWW0275-081821MSD	4088180	SWWW0275-081821	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-31 12:34	METHOD	2021-08-31 12:34	SM 2320B	101	40	144	1.8	5	mg/L	106	0	80	120	20
10575368	767175_10575368	SWWW0265-081821MSD	4088178	SWWW0265-081821	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-31 11:42	METHOD	2021-08-31 11:42	SM 2320B	82	40	120	1.8	5	mg/L	96	0	80	120	20
10575368	767175_10575368	4088174BLANK_10575368	4088174		MB	INITIAL	ALK_CaCO3	T	1	2021-08-31 11:24	METHOD	2021-08-31 11:24	SM 2320B	0	0	2	1.8	5	mg/L	0	0	0	0	0
10575368	767175_10575368	4088175LCS_10575368	4088175		LCS	INITIAL	ALK_CaCO3	T	1	2021-08-31 11:28	METHOD	2021-08-31 11:28	SM 2320B	0	40	43.1	1.8	5	mg/L	108	0	90	110	0
10575368	767175_10575368	4088176LCSD_10575368	4088176	4088175LCS_10575368	LCSD	INITIAL	ALK_CaCO3	T	1	2021-08-31 11:30	METHOD	2021-08-31 11:30	SM 2320B	0	40	42.8	1.8	5	mg/L	107	1	90	110	20
10575368	767175_10575368	SWWW0265-081821MS	4088177	SWWW0265-081821	MS	INITIAL	ALK_CaCO3	T	1	2021-08-31 11:39	METHOD	2021-08-31 11:39	SM 2320B	82	40	120	1.8	5	mg/L	96	0	80	120	0
10575368	767253_10575368	4088643BLANK_10575368	4088643		MB	INITIAL	ALK_CaCO3	T	1	2021-08-31 01:39	METHOD	2021-08-31 01:39	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10575368	767253_10575368	4088644LCS_10575368	4088644		LCS	INITIAL	ALK_CaCO3	T	1	2021-08-31 01:42	METHOD	2021-08-31 01:42	SM 2320B	0	40	44	1.8	5	mg/L	110	0	90	110	0
10575368	767253_10575368	4088645LCSD_10575368	4088645	4088644LCS_10575368	LCSD	INITIAL	ALK_CaCO3	T	1	2021-08-31 01:59	METHOD	2021-08-31 01:59	SM 2320B	0	40	42.7	1.8	5	mg/L	107	3	90	110	20
10575368	767253_10575368	SWWW0289-081821MS	4088646	SWWW0289-081821	MS	INITIAL	ALK_CaCO3	T	1	2021-08-31 02:51	METHOD	2021-08-31 02:51	SM 2320B	103	40	141	1.8	5	mg/L	95	0	80	120	0
10575368	767253_10575368	SWWW0289-081821MSD	4088647	SWWW0289-081821	MSD	INITIAL	ALK_CaCO3	T	1	2021-08-31 02:55	METHOD	2021-08-31 02:55	SM 2320B	103	40	142	1.8	5	mg/L	99	1	80	120	20
10575368	765155_10575368	SWWW0265-081821MS	4078775	SWWW0265-081821	MS	REANALYSIS	AlTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:29	EPA 200.8	1.5	2	3.7	0.008	0.02	mg/L	114	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MSD	4078776	SWWW0265-081821	MSD	REANALYSIS	AlTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:32	EPA 200.8	1.5	2	3.5	0.008	0.02	mg/L	103	6	70	130	20
10575368	765155_10575368	SWWW0275-081821MS	4078777	SWWW0275-081821	MS	INITIAL	AlTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:51	EPA 200.8	0.91	2	3.1	0.008	0.02	mg/L	109	0	70	130	0
10575368	765155_10575368	4078774LCS_10575368	4078774		LCS	REANALYSIS	AlTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:17	EPA 200.8	0	2	2.2	0.008	0.02	mg/L	110	0	85	115	0
10575368	765155_10575368	4078773BLANK_10575368	4078773		MB	REANALYSIS	AlTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:14	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10575368	765156_10575368	4078779LCS_10575368	4078779		LCS	INITIAL	AlTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:08	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	105	0	85	115	0
10575368	765156_10575368	4078778BLANK_10575368	4078778		MB	INITIAL	AlTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:04	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10575368	765156_10575368	SWWW0289-081821MS	4078782	SWWW0289-081821	MS	REANALYSIS	AlTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:02	EPA 200.8	1	2	3.2	0.008	0.02	mg/L	112	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MSD	4078783	SWWW0289-081821	MSD	REANALYSIS	AlTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:05	EPA 200.8	1	2	3.3	0.008	0.02	mg/L	112	0	70	130	20

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	INITIAL	AsDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 11:01	EPA 200.8	0.003	0.1	0.094	0.00041	0.0025	mg/L	91	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	INITIAL	AsDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:47	EPA 200.8	0.0039	0.1	0.086	0.00041	0.0025	mg/L	83	1	70	130	20
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	INITIAL	AsDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:44	EPA 200.8	0.0039	0.1	0.086	0.00041	0.0025	mg/L	82	0	70	130	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	INITIAL	AsDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:15	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	INITIAL	AsDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:18	EPA 200.8	0	0.1	0.099	0.000083	0.0005	mg/L	99	0	85	115	0
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	AsDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	AsDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	103	0	85	115	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	AsDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	0.0059	0.1	0.11	0.000083	0.0005	mg/L	105	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	AsDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	0.0059	0.1	0.11	0.000083	0.0005	mg/L	103	2	70	130	20
10575368	765155_10575368	SWWW0275-081821MS	4078777	SWWW0275-081821	MS	INITIAL	AsTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:51	EPA 200.8	0.0064	0.1	0.11	0.000083	0.0005	mg/L	107	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MSD	4078776	SWWW0265-081821	MSD	REANALYSIS	AsTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:32	EPA 200.8	0.0085	0.1	0.11	0.000083	0.0005	mg/L	100	3	70	130	20
10575368	765155_10575368	SWWW0265-081821MS	4078775	SWWW0265-081821	MS	REANALYSIS	AsTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:29	EPA 200.8	0.0085	0.1	0.11	0.000083	0.0005	mg/L	104	0	70	130	0
10575368	765155_10575368	4078773BLANK_10575368	4078773		MB	REANALYSIS	AsTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:14	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10575368	765155_10575368	4078774LCS_10575368	4078774		LCS	REANALYSIS	AsTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:17	EPA 200.8	0	0.1	0.099	0.000083	0.0005	mg/L	99	0	85	115	0
10575368	765156_10575368	4078778BLANK_10575368	4078778		MB	INITIAL	AsTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:04	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10575368	765156_10575368	4078779LCS_10575368	4078779		LCS	INITIAL	AsTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:08	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	104	0	85	115	0
10575368	765156_10575368	SWWW0289-081821MS	4078782	SWWW0289-081821	MS	REANALYSIS	AsTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:02	EPA 200.8	0.0066	0.1	0.11	0.000083	0.0005	mg/L	103	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MSD	4078783	SWWW0289-081821	MSD	REANALYSIS	AsTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:05	EPA 200.8	0.0066	0.1	0.11	0.000083	0.0005	mg/L	100	3	70	130	20
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	REANALYSIS	CaDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-30 12:21	EPA 200.8	36.3	2	38.3	0.091	0.2	mg/L	104	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	REANALYSIS	CaDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-30 11:07	EPA 200.8	37.3	2	44	0.091	0.2	mg/L	335	2	70	130	20
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	REANALYSIS	CaDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-30 11:04	EPA 200.8	37.3	2	43.1	0.091	0.2	mg/L	290	0	70	130	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	REANALYSIS	CaDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-30 10:28	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	REANALYSIS	CaDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-30 10:38	EPA 200.8	0	2	2.1	0.018	0.04	mg/L	103	0	85	115	0
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	CaDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	CaDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	2	2.2	0.018	0.04	mg/L	108	0	85	115	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	CaDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	39.3	2	41	0.018	0.04	mg/L	82	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	CaDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	39.3	2	41	0.018	0.04	mg/L	82	0	70	130	20
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	INITIAL	CdDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 11:01	EPA 200.8	0.000072	0.1	0.082	0.00008	0.0004	mg/L	82	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	INITIAL	CdDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:47	EPA 200.8	0.000086	0.1	0.078	0.00008	0.0004	mg/L	77	0	70	130	20
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	INITIAL	CdDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:44	EPA 200.8	0.000086	0.1	0.078	0.00008	0.0004	mg/L	77	0	70	130	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	INITIAL	CdDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:18	EPA 200.8	0	0.1	0.094	0.000016	0.00008	mg/L	94	0	85	115	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	INITIAL	CdDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:15	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	CdDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	CdDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	108	0	85	115	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	CdDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	0.00022	0.1	0.11	0.000016	0.00008	mg/L	107	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	CdDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	0.00022	0.1	0.11	0.000016	0.00008	mg/L	106	2	70	130	20
10575368	765155_10575368	SWWW0275-081821MS	4078777	SWWW0275-081821	MS	INITIAL	CdTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:51	EPA 200.8	0.00027	0.1	0.11	0.000016	0.00008	mg/L	109	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MSD	4078776	SWWW0265-081821	MSD	REANALYSIS	CdTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:32	EPA 200.8	0.00032	0.1	0.11	0.000016	0.00008	mg/L	106	1	70	130	20
10575368	765155_10575368	SWWW0265-081821MS	4078775	SWWW0265-081821	MS	REANALYSIS	CdTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:29	EPA 200.8	0.00032	0.1	0.11	0.000016	0.00008	mg/L	107	0	70	130	0
10575368	765155_10575368	4078774LCS_10575368	4078774		LCS	REANALYSIS	CdTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:17	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	106	0	85	115	0
10575368	765155_10575368	4078773BLANK_10575368	4078773		MB	REANALYSIS	CdTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:14	EPA 200.8	0	0	0.000025	0.000016	0.00008	mg/L	0	0	0	0	0
10575368	765156_10575368	4078778BLANK_10575368	4078778		MB	INITIAL	CdTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:04	EPA 200.8	0	0	0.000019	0.000016	0.00008	mg/L	0	0	0	0	0
10575368	765156_10575368	4078779LCS_10575368	4078779		LCS	INITIAL	CdTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:08	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	108	0	85	115	0
10575368	765156_10575368	SWWW0289-081821MS	4078782	SWWW0289-081821	MS	REANALYSIS	CdTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:02	EPA 200.8	0.00099	0.1	0.11	0.000016	0.00008	mg/L	106	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MSD	4078783	SWWW0289-081821	MSD	REANALYSIS	CdTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:05	EPA 200.8	0.00099	0.1	0.11	0.000016	0.00008	mg/L	105	1	70	130	20
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	INITIAL	CuDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 11:01	EPA 200.8	0.0083	0.1	0.1	0.0025	0.005	mg/L	91	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	INITIAL	CuDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:44	EPA 200.8	0.011	0.1	0.098	0.0025	0.005	mg/L	87	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	INITIAL	CuDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:47	EPA 200.8	0.011	0.1	0.095	0.0025	0.005	mg/L	84	3	70	130	20
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	INITIAL	CuDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:15	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	INITIAL	CuDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:18	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	100	0	85	115	0
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	CuDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	CuDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	107	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	CuDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	0.033	0.1	0.14	0.0005	0.001	mg/L	103	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	CuDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	0.033	0.1	0.14	0.0005	0.001	mg/L	104	1	70	130	20
10575368	765155_10575368	SWWW0275-081821MS	4078777	SWWW0275-081821	MS	INITIAL	CuTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:51	EPA 200.8	0.038	0.1	0.15	0.0005	0.001	mg/L	109	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MSD	4078776	SWWW0265-081821	MSD	INITIAL	CuTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:04	EPA 200.8	0.055	0.1	0.16	0.0005	0.001	mg/L	100	4	70	130	20
10575368	765155_10575368	SWWW0265-081821MS	4078775	SWWW0265-081821	MS	INITIAL	CuTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:01	EPA 200.8	0.055	0.1	0.16	0.0005	0.001	mg/L	106	0	70	130	0
10575368	765155_10575368	4078773BLANK_10575368	4078773		MB	INITIAL	CuTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:44	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10575368	765155_10575368	4078774LCS_10575368	4078774		LCS	INITIAL	CuTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:47	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	108	0	85	115	0
10575368	765156_10575368	4078779LCS_10575368	4078779		LCS	INITIAL	CuTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:08	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	110	0	85	115	0
10575368	765156_10575368	4078778BLANK_10575368	4078778		MB	INITIAL	CuTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:04	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10575368	765156_10575368	SWWW0289-081821MS	4078782	SWWW0289-081821	MS	INITIAL	CuTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:17	EPA 200.8	0.037	0.1	0.14	0.0005	0.001	mg/L	105	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MSD	4078783	SWWW0289-081821	MSD	INITIAL	CuTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:21	EPA 200.8	0.037	0.1	0.14	0.0005	0.001	mg/L	102	2	70	130	20
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	INITIAL	FeDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 11:01	EPA 200.8	0.046	2	2	0.06	0.25	mg/L	97	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	INITIAL	FeDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:47	EPA 200.8	0.064	2	1.8	0.06	0.25	mg/L	87	4	70	130	20
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	INITIAL	FeDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:44	EPA 200.8	0.064	2	1.9	0.06	0.25	mg/L	91	0	70	130	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	INITIAL	FeDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:18	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	108	0	85	115	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	INITIAL	FeDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:15	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	FeDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	FeDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	2	2.3	0.012	0.05	mg/L	113	0	85	115	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	FeDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	0.81	2	3.1	0.012	0.05	mg/L	117	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	FeDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	0.81	2	3.2	0.012	0.05	mg/L	120	2	70	130	20
10575368	765155_10575368	SWWW0275-081821MS	4078777	SWWW0275-081821	MS	INITIAL	FeTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:51	EPA 200.8	1.2	2	3.4	0.012	0.05	mg/L	110	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MSD	4078776	SWWW0265-081821	MSD	REANALYSIS	FeTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:32	EPA 200.8	1.7	2	3.7	0.012	0.05	mg/L	97	6	70	130	20
10575368	765155_10575368	SWWW0265-081821MS	4078775	SWWW0265-081821	MS	REANALYSIS	FeTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:29	EPA 200.8	1.7	2	3.9	0.012	0.05	mg/L	108	0	70	130	0
10575368	765155_10575368	4078774LCS_10575368	4078774		LCS	REANALYSIS	FeTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:17	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	109	0	85	115	0
10575368	765155_10575368	4078773BLANK_10575368	4078773		MB	REANALYSIS	FeTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:14	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10575368	765156_10575368	4078778BLANK_10575368	4078778		MB	INITIAL	FeTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:04	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10575368	765156_10575368	4078779LCS_10575368	4078779		LCS	INITIAL	FeTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:08	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	106	0	85	115	0
10575368	765156_10575368	SWWW0289-081821MS	4078782	SWWW0289-081821	MS	REANALYSIS	FeTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:02	EPA 200.8	1.2	2	3.4	0.012	0.05	mg/L	111	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MSD	4078783	SWWW0289-081821	MSD	REANALYSIS	FeTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:05	EPA 200.8	1.2	2	3.4	0.012	0.05	mg/L	108	2	70	130	20
10575368	765186_10575368	SWWW0276-081821MS	4078902	SWWW0276-081821	MS	INITIAL	HgDis	D	1	2021-08-24 08:53	EPA 245.1	2021-08-25 04:24	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
10575368	765186_10575368	SWWW0265-081821MSD	4078901	SWWW0265-081821	MSD	INITIAL	HgDis	D	1	2021-08-24 08:53	EPA 245.1	2021-08-25 04:04	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	109	5	70	130	20
10575368	765186_10575368	SWWW0265-081821MS	4078900	SWWW0265-081821	MS	INITIAL	HgDis	D	1	2021-08-24 08:53	EPA 245.1	2021-08-25 04:02	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10575368	765186_10575368	4078898BLANK_10575368	4078898		MB	INITIAL	HgDis	D	1	2021-08-24 08:53	EPA 245.1	2021-08-25 03:58	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10575368	765186_10575368	4078899LCS_10575368	4078899		LCS	INITIAL	HgDis	D	1	2021-08-24 08:53	EPA 245.1	2021-08-25 03:59	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
10575368	765187_10575368	4078903BLANK_10575368	4078903		MB	INITIAL	HgDis	D	1	2021-08-23 04:20	EPA 245.1	2021-08-25 01:03	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10575368	765187_10575368	4078904LCS_10575368	4078904		LCS	INITIAL	HgDis	D	1	2021-08-23 04:20	EPA 245.1	2021-08-25 01:05	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	85	115	0
10575368	765187_10575368	SWWW0289-081821MS	4078905	SWWW0289-081821	MS	INITIAL	HgDis	D	1	2021-08-23 04:20	EPA 245.1	2021-08-25 01:16	EPA 245.1	0.000013	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10575368	765187_10575368	SWWW0289-081821MSD	4078906	SWWW0289-081821	MSD	INITIAL	HgDis	D	1	2021-08-23 04:20	EPA 245.1	2021-08-25 01:18	EPA 245.1	0.000013	0.005	0.0051	0.000045	0.0002	mg/L	102	1	70	130	20
10575368	765190_10575368	SWWW0276-081821MS	4078920	SWWW0276-081821	MS	INITIAL	HgTR	T	1	2021-08-24 02:14	EPA 245.1	2021-08-25 06:19	EPA 245.1	0.00004	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10575368	765190_10575368	SWWW0265-081821MSD	4078919	SWWW0265-081821	MSD	INITIAL	HgTR	T	1	2021-08-24 02:14	EPA 245.1	2021-08-25 05:59	EPA 245.1	0.00003	0.005	0.0052	0.000045	0.0002	mg/L	103	2	70	130	20
10575368	765190_10575368	4078916BLANK_10575368	4078916		MB	INITIAL	HgTR	T	1	2021-08-24 02:14	EPA 245.1	2021-08-25 05:53	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10575368	765190_10575368	4078917LCS_10575368	4078917		LCS	INITIAL	HgTR	T	1	2021-08-24 02:14	EPA 245.1	2021-08-25 05:55	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	85	115	0
10575368	765190_10575368	SWWW0265-081821MS	4078918	SWWW0265-081821	MS	INITIAL	HgTR	T	1	2021-08-24 02:14	EPA 245.1	2021-08-25 05:57	EPA 245.1	0.00003	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
10575368	765191_10575368	4078921BLANK_10575368	4078921		MB	INITIAL	HgTR	T	1	2021-08-24 06:45	EPA 245.1	2021-08-25 01:51	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10575368	765191_10575368	4078922LCS_10575368	4078922		LCS	INITIAL	HgTR	T	1	2021-08-24 06:45	EPA 245.1	2021-08-25 01:53	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	107	0	85	115	0
10575368	765191_10575368	SWWW0289-081821MS	4078923	SWWW0289-081821	MS	INITIAL	HgTR	T	1	2021-08-24 06:45	EPA 245.1	2021-08-25 02:02	EPA 245.1	0.000055	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10575368	765191_10575368	SWWW0289-081821MSD	4078924	SWWW0289-081821	MSD	INITIAL	HgTR	T	1	2021-08-24 06:45	EPA 245.1	2021-08-25 02:06	EPA 245.1	0.000055	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	20
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	INITIAL	MgDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 11:01	EPA 200.8	7.8	2	9.4	0.017	0.05	mg/L	77	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	INITIAL	MgDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:47	EPA 200.8	7.8	2	8.6	0.017	0.05	mg/L	42	4	70	130	20
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	INITIAL	MgDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:44	EPA 200.8	7.8	2	9	0.017	0.05	mg/L	61	0	70	130	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	INITIAL	MgDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:15	EPA 200.8	0	0	0.0034	0.0034	0.01	mg/L	0	0	0	0	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	INITIAL	MgDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:18	EPA 200.8	0	2	1.9	0.0034	0.01	mg/L	94	0	85	115	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	MgDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.0034	0.0034	0.01	mg/L	0	0	0	0	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	MgDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	2	2.2	0.0034	0.01	mg/L	111	0	85	115	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	MgDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	9.6	2	11.6	0.0034	0.01	mg/L	100	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	MgDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	9.6	2	11.5	0.0034	0.01	mg/L	94	1	70	130	20
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	INITIAL	MoDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:44	EPA 200.8	0.012	0.1	0.088	0.00047	0.0025	mg/L	76	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	INITIAL	MoDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:47	EPA 200.8	0.012	0.1	0.086	0.00047	0.0025	mg/L	74	2	70	130	20
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	REANALYSIS	MoDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-30 12:21	EPA 200.8	0.011	0.1	0.099	0.00047	0.0025	mg/L	89	0	70	130	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	INITIAL	MoDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:18	EPA 200.8	0	0.1	0.092	0.000094	0.0005	mg/L	92	0	85	115	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	INITIAL	MoDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:15	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	MoDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	MoDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	104	0	85	115	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	MoDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	0.012	0.1	0.12	0.000094	0.0005	mg/L	107	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	MoDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	0.012	0.1	0.12	0.000094	0.0005	mg/L	106	1	70	130	20
10575368	765155_10575368	SWWW0275-081821MS	4078777	SWWW0275-081821	MS	INITIAL	MoTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:51	EPA 200.8	0.013	0.1	0.12	0.000094	0.0005	mg/L	109	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MSD	4078776	SWWW0265-081821	MSD	REANALYSIS	MoTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:32	EPA 200.8	0.015	0.1	0.12	0.000094	0.0005	mg/L	101	2	70	130	20
10575368	765155_10575368	SWWW0265-081821MS	4078775	SWWW0265-081821	MS	REANALYSIS	MoTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:29	EPA 200.8	0.015	0.1	0.12	0.000094	0.0005	mg/L	103	0	70	130	0
10575368	765155_10575368	4078773BLANK_10575368	4078773		MB	REANALYSIS	MoTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:14	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10575368	765155_10575368	4078774LCS_10575368	4078774		LCS	REANALYSIS	MoTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:17	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	100	0	85	115	0
10575368	765156_10575368	4078779LCS_10575368	4078779		LCS	INITIAL	MoTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:08	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	105	0	85	115	0
10575368	765156_10575368	4078778BLANK_10575368	4078778		MB	INITIAL	MoTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:04	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10575368	765156_10575368	SWWW0289-081821MS	4078782	SWWW0289-081821	MS	REANALYSIS	MoTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:02	EPA 200.8	0.012	0.1	0.12	0.000094	0.0005	mg/L	104	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MSD	4078783	SWWW0289-081821	MSD	REANALYSIS	MoTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-30 07:05	EPA 200.8	0.012	0.1	0.12	0.000094	0.0005	mg/L	103	1	70	130	20
10575368	765361_10575368	SWWW0265-081821MSD	4079509	SWWW0265-081821	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-23 03:07	METHOD	2021-08-23 03:07	SM 4500-NO3-H	1.1	2.5	3.6	0.078	0.2	mg/L	99	2	80	120	20
10575368	765361_10575368	SWWW0265-081821MS	4079508	SWWW0265-081821	MS	INITIAL	NO3/NO2-N	T	1	2021-08-23 03:06	METHOD	2021-08-23 03:06	SM 4500-NO3-H	1.1	2.5	3.6	0.078	0.2	mg/L	101	0	80	120	0
10575368	765361_10575368	4079504BLANK_10575368	4079504		MB	INITIAL	NO3/NO2-N	T	1	2021-08-23 02:56	METHOD	2021-08-23 02:56	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10575368	765361_10575368	4079505LCS_10575368	4079505		LCS	INITIAL	NO3/NO2-N	T	1	2021-08-23 02:56	METHOD	2021-08-23 02:56	SM 4500-NO3-H	0	2.5	2.5	0.078	0.2	mg/L	100	0	90	110	0
10575368	765362_10575368	4079510BLANK_10575368	4079510		MB	INITIAL	NO3/NO2-N	T	1	2021-08-23 03:24	METHOD	2021-08-23 03:24	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10575368	765362_10575368	4079511LCS_10575368	4079511		LCS	INITIAL	NO3/NO2-N	T	1	2021-08-23 03:25	METHOD	2021-08-23 03:25	SM 4500-NO3-H	0	2.5	2.6	0.078	0.2	mg/L	103	0	90	110	0
10575368	765362_10575368	SWWW0280-081821MS	4079512	SWWW0280-081821	MS	INITIAL	NO3/NO2-N	T	1	2021-08-23 03:26	METHOD	2021-08-23 03:26	SM 4500-NO3-H	1.3	2.5	3.9	0.078	0.2	mg/L	104	0	80	120	0
10575368	765362_10575368	SWWW0280-081821MSD	4079513	SWWW0280-081821	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-23 03:28	METHOD	2021-08-23 03:28	SM 4500-NO3-H	1.3	2.5	3.8	0.078	0.2	mg/L	100	2	80	120	20
10575368	765362_10575368	SWWW0289-081821MS	4079514	SWWW0289-081821	MS	INITIAL	NO3/NO2-N	T	1	2021-08-23 03:39	METHOD	2021-08-23 03:39	SM 4500-NO3-H	0.82	2.5	3.4	0.078	0.2	mg/L	104	0	80	120	0
10575368	765362_10575368	SWWW0289-081821MSD	4079515	SWWW0289-081821	MSD	INITIAL	NO3/NO2-N	T	1	2021-08-23 03:39	METHOD	2021-08-23 03:39	SM 4500-NO3-H	0.82	2.5	3.4	0.078	0.2	mg/L	102	1	80	120	20
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	INITIAL	PbDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 11:01	EPA 200.8	0.00054	0.1	0.085	0.00014	0.0005	mg/L	84	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	INITIAL	PbDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:47	EPA 200.8	0.00057	0.1	0.08	0.00014	0.0005	mg/L	79	0	70	130	20
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	INITIAL	PbDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-25 09:44	EPA 200.8	0.00057	0.1	0.08	0.00014	0.0005	mg/L	80	0	70	130	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	INITIAL	PbDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:15	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	INITIAL	PbDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-25 09:18	EPA 200.8	0	0.1	0.093	0.000028	0.0001	mg/L	93	0	85	115	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	PbDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	113	0	85	115	0
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	PbDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	PbDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	0.014	0.1	0.12	0.000028	0.0001	mg/L	110	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	PbDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	0.014	0.1	0.12	0.000028	0.0001	mg/L	108	1	70	130	20
10575368	765155_10575368	SWWW0275-081821MS	4078777	SWWW0275-081821	MS	INITIAL	PbTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:51	EPA 200.8	0.017	0.1	0.13	0.000028	0.0001	mg/L	109	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MS	4078775	SWWW0265-081821	MS	INITIAL	PbTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:01	EPA 200.8	0.025	0.1	0.13	0.000028	0.0001	mg/L	106	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MSD	4078776	SWWW0265-081821	MSD	INITIAL	PbTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:04	EPA 200.8	0.025	0.1	0.13	0.000028	0.0001	mg/L	103	3	70	130	20
10575368	765155_10575368	4078774LCS_10575368	4078774		LCS	INITIAL	PbTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:47	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	107	0	85	115	0
10575368	765155_10575368	4078773BLANK_10575368	4078773		MB	INITIAL	PbTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:44	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10575368	765156_10575368	4078778BLANK_10575368	4078778		MB	INITIAL	PbTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:04	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10575368	765156_10575368	4078779LCS_10575368	4078779		LCS	INITIAL	PbTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:08	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	109	0	85	115	0
10575368	765156_10575368	SWWW0289-081821MS	4078782	SWWW0289-081821	MS	INITIAL	PbTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:17	EPA 200.8	0.017	0.1	0.12	0.000028	0.0001	mg/L	107	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MSD	4078783	SWWW0289-081821	MSD	INITIAL	PbTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:21	EPA 200.8	0.017	0.1	0.12	0.000028	0.0001	mg/L	103	4	70	130	20
10575368	766357_10575368	SWWW0265-081821MS	4083822	SWWW0265-081821	MS	INITIAL	SO4	T	2	2021-08-27 01:37	METHOD	2021-08-27 01:37	ASTM D516-90-02	60.7	40	49.7	2.4	5	mg/L	0	0	80	120	0
10575368	766357_10575368	SWWW0265-081821MSD	4083823	SWWW0265-081821	MSD	INITIAL	SO4	T	2	2021-08-27 01:38	METHOD	2021-08-27 01:38	ASTM D516-90-02	60.7	40	47	2.4	5	mg/L	0	5	80	120	30

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10575368	766357_10575368	4083817BLANK_10575368	4083817		MB	INITIAL	SO4	T	1	2021-08-27 04:56	METHOD	2021-08-27 04:56	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10575368	766357_10575368	4083818LCS_10575368	4083818		LCS	INITIAL	SO4	T	1	2021-08-27 01:41	METHOD	2021-08-27 01:41	ASTM D516-90-02	0	20	18.3	1.2	2.5	mg/L	91	0	80	120	0
10575368	766357_10575368	4083819LCSD_10575368	4083819	4083818LCS_10575368	LCSD	INITIAL	SO4	T	1	2021-08-27 01:41	METHOD	2021-08-27 01:41	ASTM D516-90-02	0	20	18.7	1.2	2.5	mg/L	94	2	80	120	20
10575368	767229_10575368	4088516BLANK_10575368	4088516		MB	INITIAL	SO4	T	1	2021-09-02 09:19	METHOD	2021-09-02 09:19	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10575368	767229_10575368	4088517LCS_10575368	4088517		LCS	INITIAL	SO4	T	1	2021-09-02 09:17	METHOD	2021-09-02 09:17	ASTM D516-90-02	0	20	17.5	1.2	2.5	mg/L	87	0	80	120	0
10575368	767229_10575368	4088518LCSD_10575368	4088518	4088517LCS_10575368	LCSD	INITIAL	SO4	T	1	2021-09-02 09:18	METHOD	2021-09-02 09:18	ASTM D516-90-02	0	20	17.4	1.2	2.5	mg/L	87	1	80	120	20
10575368	767229_10575368	SWWW0270-081821MS	4088519	SWWW0270-081821	MS	INITIAL	SO4	T	10	2021-09-02 12:46	METHOD	2021-09-02 12:46	ASTM D516-90-02	165	100	256	12.1	25	mg/L	90	0	80	120	0
10575368	767229_10575368	SWWW0270-081821MSD	4088520	SWWW0270-081821	MSD	INITIAL	SO4	T	10	2021-09-02 12:46	METHOD	2021-09-02 12:46	ASTM D516-90-02	165	100	259	12.1	25	mg/L	94	1	80	120	30
10575368	767229_10575368	SWWW0289-081821MS	4088521	SWWW0289-081821	MS	INITIAL	SO4	T	4	2021-09-02 01:02	METHOD	2021-09-02 01:02	ASTM D516-90-02	62.6	40	98.5	4.8	10	mg/L	90	0	80	120	0
10575368	767229_10575368	SWWW0289-081821MSD	4088522	SWWW0289-081821	MSD	INITIAL	SO4	T	4	2021-09-02 01:02	METHOD	2021-09-02 01:02	ASTM D516-90-02	62.6	40	95.2	4.8	10	mg/L	81	3	80	120	30
10575368	767233_10575368	SWWW0290-081821MS	4088533	SWWW0290-081821	MS	INITIAL	SO4	T	4	2021-09-02 01:03	METHOD	2021-09-02 01:03	ASTM D516-90-02	100	40	118	4.8	10	mg/L	46	0	80	120	0
10575368	767233_10575368	SWWW0290-081821MSD	4088534	SWWW0290-081821	MSD	INITIAL	SO4	T	4	2021-09-02 01:04	METHOD	2021-09-02 01:04	ASTM D516-90-02	100	40	116	4.8	10	mg/L	41	2	80	120	30
10575368	767233_10575368	4088530BLANK_10575368	4088530		MB	INITIAL	SO4	T	1	2021-09-02 09:19	METHOD	2021-09-02 09:19	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10575368	767233_10575368	4088531LCS_10575368	4088531		LCS	INITIAL	SO4	T	1	2021-09-02 09:16	METHOD	2021-09-02 09:16	ASTM D516-90-02	0	20	17.5	1.2	2.5	mg/L	88	0	80	120	0
10575368	767233_10575368	4088532LCSD_10575368	4088532	4088531LCS_10575368	LCSD	INITIAL	SO4	T	1	2021-09-02 09:17	METHOD	2021-09-02 09:17	ASTM D516-90-02	0	20	17.4	1.2	2.5	mg/L	87	1	80	120	20
10575368	765034_10575368	SWWW0265-081821DUP	4077865	SWWW0265-081821	LR	INITIAL	TDS	D	1	2021-08-23 12:21	METHOD	2021-08-23 12:21	SM 2540C	246	0	248	5	10	mg/L	0	1	0	0	5
10575368	765034_10575368	4077862BLANK_10575368	4077862		MB	INITIAL	TDS	D	1	2021-08-23 12:21	METHOD	2021-08-23 12:21	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10575368	765034_10575368	4077863LCS_10575368	4077863		LCS	INITIAL	TDS	D	1	2021-08-23 12:21	METHOD	2021-08-23 12:21	SM 2540C	0	1000	1020	10	20	mg/L	102	0	80	120	0
10575368	765402_10575368	4079717BLANK_10575368	4079717		MB	INITIAL	TDS	D	1	2021-08-24 01:23	METHOD	2021-08-24 01:23	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10575368	765402_10575368	4079718LCS_10575368	4079718		LCS	INITIAL	TDS	D	1	2021-08-24 01:23	METHOD	2021-08-24 01:23	SM 2540C	0	1000	1030	10	20	mg/L	103	0	80	120	0
10575368	765402_10575368	SWWW0289-081821DUP	4079720	SWWW0289-081821	LR	INITIAL	TDS	D	1	2021-08-24 01:23	METHOD	2021-08-24 01:23	SM 2540C	269	0	272	5	10	mg/L	0	1	0	0	5
10575368	765402_10575368	SWWW0272-081821DUP	4079719	SWWW0272-081821	LR	INITIAL	TDS	D	1	2021-08-24 01:23	METHOD	2021-08-24 01:23	SM 2540C	944	0	952	10	20	mg/L	0	1	0	0	5
10575368	765772_10575368	4081271BLANK_10575368	4081271		MB	INITIAL	TDS	D	1	2021-08-25 07:57	METHOD	2021-08-25 07:57	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10575368	765772_10575368	4081272LCS_10575368	4081272		LCS	INITIAL	TDS	D	1	2021-08-25 07:57	METHOD	2021-08-25 07:57	SM 2540C	0	1000	1020	10	20	mg/L	102	0	80	120	0
10575368	765039_10575368	SWWW0265-081821DUP	4077876	SWWW0265-081821	LR	INITIAL	TSS	T	1	2021-08-23 01:38	METHOD	2021-08-23 01:38	SM 2540D	41.8	0	38.7	5	10	mg/L	0	8	0	0	5
10575368	765039_10575368	SWWW0266-081821DUP	4077877	SWWW0266-081821	LR	INITIAL	TSS	T	1	2021-08-23 01:38	METHOD	2021-08-23 01:38	SM 2540D	47	0	48.9	5	10	mg/L	0	4	0	0	5
10575368	765039_10575368	4077874BLANK_10575368	4077874		MB	INITIAL	TSS	T	1	2021-08-23 01:38	METHOD	2021-08-23 01:38	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10575368	765039_10575368	4077875LCS_10575368	4077875		LCS	INITIAL	TSS	T	1	2021-08-23 01:38	METHOD	2021-08-23 01:38	SM 2540D	0	100	80.4	10	20	mg/L	80	0	80	120	0
10575368	765046_10575368	4077886BLANK_10575368	4077886		MB	INITIAL	TSS	T	1	2021-08-24 07:39	METHOD	2021-08-24 07:39	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10575368	765046_10575368	4077887LCS_10575368	4077887		LCS	INITIAL	TSS	T	1	2021-08-24 07:39	METHOD	2021-08-24 07:39	SM 2540D	0	100	83.6	10	20	mg/L	84	0	80	120	0
10575368	765046_10575368	SWWW0289-081821DUP	4077889	SWWW0289-081821	LR	INITIAL	TSS	T	1	2021-08-24 07:39	METHOD	2021-08-24 07:39	SM 2540D	19.6	0	20.5	5	10	mg/L	0	4	0	0	5
10575368	765046_10575368	SWWW0287-081821DUP	4077888	SWWW0287-081821	LR	INITIAL	TSS	T	1	2021-08-24 07:39	METHOD	2021-08-24 07:39	SM 2540D	50.4	0	53.8	5	10	mg/L	0	7	0	0	5
10575368	765159_10575368	SWWW0265-081821MSD	4078796	SWWW0265-081821	MSD	REANALYSIS	ZnDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-30 11:07	EPA 200.8	0.014	0.1	0.11	0.0098	0.025	mg/L	99	4	70	130	20
10575368	765159_10575368	SWWW0275-081821MS	4078797	SWWW0275-081821	MS	REANALYSIS	ZnDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-30 12:21	EPA 200.8	0.028	0.1	0.11	0.0098	0.025	mg/L	86	0	70	130	0
10575368	765159_10575368	SWWW0265-081821MS	4078795	SWWW0265-081821	MS	REANALYSIS	ZnDis	D	5	2021-08-25 04:57	EPA 200.8	2021-08-30 11:04	EPA 200.8	0.014	0.1	0.11	0.0098	0.025	mg/L	96	0	70	130	0
10575368	765159_10575368	4078794LCS_10575368	4078794		LCS	REANALYSIS	ZnDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-30 10:38	EPA 200.8	0	0.1	0.095	0.002	0.005	mg/L	95	0	85	115	0
10575368	765159_10575368	4078793BLANK_10575368	4078793		MB	REANALYSIS	ZnDis	D	1	2021-08-25 04:57	EPA 200.8	2021-08-30 10:28	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10575368	765160_10575368	4078798BLANK_10575368	4078798		MB	INITIAL	ZnDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:12	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10575368	765160_10575368	4078799LCS_10575368	4078799		LCS	INITIAL	ZnDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:15	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	108	0	85	115	0
10575368	765160_10575368	SWWW0289-081821MS	4078800	SWWW0289-081821	MS	INITIAL	ZnDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-26 11:58	EPA 200.8	0.08	0.1	0.18	0.002	0.005	mg/L	104	0	70	130	0
10575368	765160_10575368	SWWW0289-081821MSD	4078801	SWWW0289-081821	MSD	INITIAL	ZnDis	D	1	2021-08-23 01:12	EPA 200.8	2021-08-27 12:00	EPA 200.8	0.08	0.1	0.18	0.002	0.005	mg/L	105	0	70	130	20
10575368	765155_10575368	SWWW0275-081821MS	4078777	SWWW0275-081821	MS	INITIAL	ZnTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:51	EPA 200.8	0.087	0.1	0.19	0.002	0.005	mg/L	107	0	70	130	0
10575368	765155_10575368	SWWW0265-081821MSD	4078776	SWWW0265-081821	MSD	INITIAL	ZnTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:04	EPA 200.8	0.096	0.1	0.19	0.002	0.005	mg/L	93	4	70	130	20
10575368	765155_10575368	SWWW0265-081821MS	4078775	SWWW0265-081821	MS	INITIAL	ZnTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 08:01	EPA 200.8	0.096	0.1	0.2	0.002	0.005	mg/L	101	0	70	130	0
10575368	765155_10575368	4078773BLANK_10575368	4078773		MB	INITIAL	ZnTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:44	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10575368	765155_10575368	4078774LCS_10575368	4078774		LCS	INITIAL	ZnTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:47	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	106	0	85	115	0
10575368	765156_10575368	4078779LCS_10575368	4078779		LCS	INITIAL	ZnTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:08	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	108	0	85	115	0
10575368	765156_10575368	4078778BLANK_10575368	4078778		MB	INITIAL	ZnTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 05:04	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10575368	765156_10575368	SWWW0289-081821MS	4078782	SWWW0289-081821	MS	INITIAL	ZnTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:17	EPA 200.8	0.088	0.1	0.19	0.002	0.005	mg/L	98	0	70	130	0
10575368	765156_10575368	SWWW0289-081821MSD	4078783	SWWW0289-081821	MSD	INITIAL	ZnTR	T	1	2021-08-24 11:35	EPA 200.8	2021-08-27 07:21	EPA 200.8	0.088	0.1	0.18	0.002	0.005	mg/L	94	2	70	130	20
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	AgDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.05	0.056	0.00016	0.0005	mg/L	112	0	85	115	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	AgDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	AgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	AgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	0.05	0.051	0.00016	0.0005	mg/L	102	0	85	115	0
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	AgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	0.000085	0.05	0.053	0.00016	0.0005	mg/L	106	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	AgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	0.000085	0.05	0.054	0.00016	0.0005	mg/L	107	1	70	130	20
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	AgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	0.000014	0.05	0.048	0.00016	0.0005	mg/L	96	0	70	130	0
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	AgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	0.05	0.058	0.00016	0.0005	mg/L	116	0	85	115	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	INITIAL	AgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:49	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	AgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	0.00016	0.05	0.057	0.00016	0.0005	mg/L	114	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	AgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	0.00016	0.05	0.058	0.00016	0.0005	mg/L	115	1	70	130	20
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	REANALY2	AgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-10 09:48	EPA 200.8	0.000019	0.05	0.053	0.00016	0.0005	mg/L	105	0	70	130	0
10576060	766505_10576060	4084565BLANK_10576060	4084565		MB	INITIAL	AgTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10576060	766505_10576060	4084566LCS_10576060	4084566		LCS	INITIAL	AgTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.05	0.051	0.00016	0.0005	mg/L	102	0	85	115	0
10576060	766506_10576060	4084571BLANK_10576060	4084571		MB	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:55	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10576060	766506_10576060	4084572LCS_10576060	4084572		LCS	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:58	EPA 200.8	0	0.05	0.05	0.00016	0.0005	mg/L	100	0	85	115	0
10576060	766506_10576060	SWWW0304-082121MS	4084575	SWWW0304-082121	MS	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 09:01	EPA 200.8	0.00023	0.05	0.048	0.00016	0.0005	mg/L	96	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MS	4084573	SWWW0294-082121	MS	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:13	EPA 200.8	0.00012	0.05	0.052	0.00016	0.0005	mg/L	104	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MSD	4084574	SWWW0294-082121	MSD	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:16	EPA 200.8	0.00012	0.05	0.051	0.00016	0.0005	mg/L	101	3	70	130	20
10576060	766508_10576060	4084581BLANK_10576060	4084581		MB	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:49	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10576060	766508_10576060	4084582LCS_10576060	4084582		LCS	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:52	EPA 200.8	0	0.05	0.052	0.00016	0.0005	mg/L	104	0	85	115	0
10576060	766508_10576060	SWWW0314-082121MSD	4084584	SWWW0314-082121	MSD	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:10	EPA 200.8	0.000071	0.05	0.053	0.00016	0.0005	mg/L	106	0	70	130	20
10576060	766508_10576060	SWWW0324-082121MS	4084585	SWWW0324-082121	MS	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:56	EPA 200.8	0.00018	0.05	0.05	0.00016	0.0005	mg/L	100	0	70	130	0
10576060	766508_10576060	SWWW0314-082121MS	4084583	SWWW0314-082121	MS	INITIAL	AgTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:07	EPA 200.8	0.000071	0.05	0.053	0.00016	0.0005	mg/L	105	0	70	130	0
10576060	768142_10576060	4093354BLANK_10576060	4093354		MB	INITIAL	AgTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:26	EPA 200.8	0	0	0.00016	0.00016	0.0005	mg/L	0	0	0	0	0
10576060	768142_10576060	4093355LCS_10576060	4093355		LCS	INITIAL	AgTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:29	EPA 200.8	0	0.05	0.055	0.00016	0.0005	mg/L	109	0	85	115	0
10576060	768142_10576060	SWWW0293-082121MS	4093356	SWWW0293-082121	MS	INITIAL	AgTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:43	EPA 200.8	0.000076	0.05	0.052	0.00016	0.0005	mg/L	105	0	70	130	0
10576060	768142_10576060	SWWW0293-082121MSD	4093357	SWWW0293-082121	MSD	INITIAL	AgTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:47	EPA 200.8	0.000076	0.05	0.055	0.00016	0.0005	mg/L	111	6	70	130	20
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	AlDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	105	0	85	115	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	AlDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	AlDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	AlDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	2	2	0.008	0.02	mg/L	101	0	85	115	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	AlDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	1.3	2	3.7	0.008	0.02	mg/L	121	4	70	130	20
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	AlDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	1.3	2	3.6	0.008	0.02	mg/L	115	0	70	130	0
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	AlDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	0.011	2	1.9	0.008	0.02	mg/L	95	0	70	130	0
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	AlDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	104	0	85	115	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	INITIAL	AlDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:49	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	AlDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	0.017	2	2.1	0.008	0.02	mg/L	103	0	70	130	20
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	AlDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	0.017	2	2.1	0.008	0.02	mg/L	103	0	70	130	0
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	INITIAL	AlDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 11:53	EPA 200.8	0.015	2	2.1	0.008	0.02	mg/L	103	0	70	130	0
10576060	767917_10576060	4092308BLANK_10576060	4092308		MB	INITIAL	ALK_CaCO3	T	1	2021-09-02 02:35	METHOD	2021-09-02 02:35	SM 2320B	0	0	2.1	1.8	5	mg/L	0	0	0	0	0
10576060	767917_10576060	4092309LCS_10576060	4092309		LCS	INITIAL	ALK_CaCO3	T	1	2021-09-02 02:38	METHOD	2021-09-02 02:38	SM 2320B	0	40	43.5	1.8	5	mg/L	109	0	90	110	0
10576060	767917_10576060	4092310LCSD_10576060	4092310	4092309LCS_10576060	LCSD	INITIAL	ALK_CaCO3	T	1	2021-09-02 02:41	METHOD	2021-09-02 02:41	SM 2320B	0	40	43.6	1.8	5	mg/L	109	0	90	110	20
10576060	767917_10576060	SWWW0293-082121MSD	4092312	SWWW0293-082121	MSD	INITIAL	ALK_CaCO3	T	1	2021-09-02 02:52	METHOD	2021-09-02 02:52	SM 2320B	59	40	99.2	1.8	5	mg/L	100	0	80	120	20
10576060	767917_10576060	SWWW0293-082121MS	4092311	SWWW0293-082121	MS	INITIAL	ALK_CaCO3	T	1	2021-09-02 02:48	METHOD	2021-09-02 02:48	SM 2320B	59	40	99.1	1.8	5	mg/L	100	0	80	120	0
10576060	767917_10576060	SWWW0298-082121MS	4092313	SWWW0298-082121	MS	INITIAL	ALK_CaCO3	T	1	2021-09-02 03:20	METHOD	2021-09-02 03:20	SM 2320B	63.9	40	103	1.8	5	mg/L	99	0	80	120	0
10576060	767917_10576060	SWWW0298-082121MSD	4092314	SWWW0298-082121	MSD	INITIAL	ALK_CaCO3	T	1	2021-09-02 03:23	METHOD	2021-09-02 03:23	SM 2320B	63.9	40	104	1.8	5	mg/L	99	0	80	120	20
10576060	768071_10576060	4093133BLANK_10576060	4093133		MB	INITIAL	ALK_CaCO3	T	1	2021-09-03 09:14	METHOD	2021-09-03 09:14	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10576060	768071_10576060	4093134LCS_10576060	4093134		LCS	INITIAL	ALK_CaCO3	T	1	2021-09-03 09:18	METHOD	2021-09-03 09:18	SM 2320B	0	40	42.2	1.8	5	mg/L	105	0	90	110	0
10576060	768071_10576060	4093135LCSD_10576060	4093135	4093134LCS_10576060	LCSD	INITIAL	ALK_CaCO3	T	1	2021-09-03 09:21	METHOD	2021-09-03 09:21	SM 2320B	0	40	42.2	1.8	5	mg/L	105	0	90	110	20
10576060	768071_10576060	SWWW0313-082121MS	4093136	SWWW0313-082121	MS	INITIAL	ALK_CaCO3	T	1	2021-09-03 09:28	METHOD	2021-09-03 09:28	SM 2320B	42.8	40	82.8	1.8	5	mg/L	100	0	80	120	0
10576060	768071_10576060	SWWW0313-082121MSD	4093137	SWWW0313-082121	MSD	INITIAL	ALK_CaCO3	T	1	2021-09-03 09:32	METHOD	2021-09-03 09:32	SM 2320B	42.8	40	83	1.8	5	mg/L	101	0	80	120	20
10576060	768071_10576060	SWWW0325-082121MS	4093138	SWWW0325-082121	MS	INITIAL	ALK_CaCO3	T	1	2021-09-03 10:33	METHOD	2021-09-03 10:33	SM 2320B	48.8	40	89	1.8	5	mg/L	100	0	80	120	0
10576060	768071_10576060	SWWW0325-082121MSD	4093139	SWWW0325-082121	MSD	INITIAL	ALK_CaCO3	T	1	2021-09-03 10:37	METHOD	2021-09-03 10:37	SM 2320B	48.8	40	89.4	1.8	5	mg/L	101	0	80	120	20

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10576060	768076_10576060	SWWW0333-082121MS	4093147	SWWW0333-082121	MS	INITIAL	ALK_CaCO3	T	1	2021-09-03 11:42	METHOD	2021-09-03 11:42	SM 2320B	72.1	40	111	1.8	5	mg/L	98	0	80	120	0
10576060	768076_10576060	SWWW0333-082121MSD	4093148	SWWW0333-082121	MSD	INITIAL	ALK_CaCO3	T	1	2021-09-03 11:46	METHOD	2021-09-03 11:46	SM 2320B	72.1	40	112	1.8	5	mg/L	100	1	80	120	20
10576060	768076_10576060	4093144BLANK_10576060	4093144		MB	INITIAL	ALK_CaCO3	T	1	2021-09-03 11:27	METHOD	2021-09-03 11:27	SM 2320B	0	0	1.8	1.8	5	mg/L	0	0	0	0	0
10576060	768076_10576060	4093145LCS_10576060	4093145		LCS	INITIAL	ALK_CaCO3	T	1	2021-09-03 11:31	METHOD	2021-09-03 11:31	SM 2320B	0	40	42.3	1.8	5	mg/L	106	0	90	110	0
10576060	768076_10576060	4093146LCSD_10576060	4093146	4093145LCS_10576060	LCSD	INITIAL	ALK_CaCO3	T	1	2021-09-03 11:34	METHOD	2021-09-03 11:34	SM 2320B	0	40	42.4	1.8	5	mg/L	106	0	90	110	20
10576060	766505_10576060	4084565BLANK_10576060	4084565		MB	INITIAL	AlTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10576060	766505_10576060	4084566LCS_10576060	4084566		LCS	INITIAL	AlTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	2	2	0.008	0.02	mg/L	100	0	85	115	0
10576060	766506_10576060	4084571BLANK_10576060	4084571		MB	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:55	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10576060	766506_10576060	4084572LCS_10576060	4084572		LCS	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:58	EPA 200.8	0	2	2.2	0.008	0.02	mg/L	108	0	85	115	0
10576060	766506_10576060	SWWW0304-082121MS	4084575	SWWW0304-082121	MS	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 09:01	EPA 200.8	1.6	2	3.8	0.008	0.02	mg/L	112	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MSD	4084574	SWWW0294-082121	MSD	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:16	EPA 200.8	1.9	2	3.9	0.008	0.02	mg/L	103	2	70	130	20
10576060	766506_10576060	SWWW0294-082121MS	4084573	SWWW0294-082121	MS	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:13	EPA 200.8	1.9	2	4	0.008	0.02	mg/L	108	0	70	130	0
10576060	766508_10576060	4084581BLANK_10576060	4084581		MB	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:49	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10576060	766508_10576060	4084582LCS_10576060	4084582		LCS	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:52	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	106	0	85	115	0
10576060	766508_10576060	SWWW0324-082121MS	4084585	SWWW0324-082121	MS	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:56	EPA 200.8	1.1	2	3.2	0.008	0.02	mg/L	104	0	70	130	0
10576060	766508_10576060	SWWW0314-082121MS	4084583	SWWW0314-082121	MS	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:07	EPA 200.8	1.3	2	4.2	0.008	0.02	mg/L	142	0	70	130	0
10576060	766508_10576060	SWWW0314-082121MSD	4084584	SWWW0314-082121	MSD	INITIAL	AlTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:10	EPA 200.8	1.3	2	3.2	0.008	0.02	mg/L	92	27	70	130	20
10576060	768142_10576060	SWWW0293-082121MSD	4093357	SWWW0293-082121	MSD	INITIAL	AlTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:47	EPA 200.8	1	2	3.3	0.008	0.02	mg/L	112	6	70	130	20
10576060	768142_10576060	SWWW0293-082121MS	4093356	SWWW0293-082121	MS	INITIAL	AlTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:43	EPA 200.8	1	2	3.1	0.008	0.02	mg/L	103	0	70	130	0
10576060	768142_10576060	4093354BLANK_10576060	4093354		MB	INITIAL	AlTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:26	EPA 200.8	0	0	0.008	0.008	0.02	mg/L	0	0	0	0	0
10576060	768142_10576060	4093355LCS_10576060	4093355		LCS	INITIAL	AlTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:29	EPA 200.8	0	2	2.1	0.008	0.02	mg/L	103	0	85	115	0
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	101	0	85	115	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	AsDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	AsDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	100	0	85	115	0
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	AsDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	0.0047	0.1	0.11	0.000083	0.0005	mg/L	102	0	70	130	0
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	AsDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	0.003	0.1	0.11	0.000083	0.0005	mg/L	102	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	AsDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	0.0047	0.1	0.11	0.000083	0.0005	mg/L	104	2	70	130	20
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	AsDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	104	0	85	115	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	INITIAL	AsDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:49	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	INITIAL	AsDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 11:53	EPA 200.8	0.0036	0.1	0.11	0.000083	0.0005	mg/L	106	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	AsDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	0.0023	0.1	0.11	0.000083	0.0005	mg/L	105	0	70	130	20
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	AsDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	0.0023	0.1	0.11	0.000083	0.0005	mg/L	105	0	70	130	0
10576060	766505_10576060	4084566LCS_10576060	4084566		LCS	INITIAL	AsTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.091	0.000083	0.0005	mg/L	91	0	85	115	0
10576060	766505_10576060	4084565BLANK_10576060	4084565		MB	INITIAL	AsTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10576060	766506_10576060	4084571BLANK_10576060	4084571		MB	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:55	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10576060	766506_10576060	4084572LCS_10576060	4084572		LCS	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:58	EPA 200.8	0	0.1	0.095	0.000083	0.0005	mg/L	95	0	85	115	0
10576060	766506_10576060	SWWW0304-082121MS	4084575	SWWW0304-082121	MS	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 09:01	EPA 200.8	0.0092	0.1	0.11	0.000083	0.0005	mg/L	100	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MS	4084573	SWWW0294-082121	MS	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:13	EPA 200.8	0.0054	0.1	0.1	0.000083	0.0005	mg/L	97	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MSD	4084574	SWWW0294-082121	MSD	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:16	EPA 200.8	0.0054	0.1	0.1	0.000083	0.0005	mg/L	95	2	70	130	20
10576060	766508_10576060	4084582LCS_10576060	4084582		LCS	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:52	EPA 200.8	0	0.1	0.097	0.000083	0.0005	mg/L	97	0	85	115	0
10576060	766508_10576060	4084581BLANK_10576060	4084581		MB	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:49	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10576060	766508_10576060	SWWW0324-082121MS	4084585	SWWW0324-082121	MS	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:56	EPA 200.8	0.0065	0.1	0.11	0.000083	0.0005	mg/L	99	0	70	130	0
10576060	766508_10576060	SWWW0314-082121MS	4084583	SWWW0314-082121	MS	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:07	EPA 200.8	0.004	0.1	0.1	0.000083	0.0005	mg/L	97	0	70	130	0
10576060	766508_10576060	SWWW0314-082121MSD	4084584	SWWW0314-082121	MSD	INITIAL	AsTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:10	EPA 200.8	0.004	0.1	0.1	0.000083	0.0005	mg/L	98	1	70	130	20
10576060	768142_10576060	4093354BLANK_10576060	4093354		MB	INITIAL	AsTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:26	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
10576060	768142_10576060	4093355LCS_10576060	4093355		LCS	INITIAL	AsTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:29	EPA 200.8	0	0.1	0.11	0.000083	0.0005	mg/L	106	0	85	115	0
10576060	768142_10576060	SWWW0293-082121MSD	4093357	SWWW0293-082121	MSD	INITIAL	AsTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:47	EPA 200.8	0.0044	0.1	0.11	0.000083	0.0005	mg/L	107	5	70	130	20
10576060	768142_10576060	SWWW0293-082121MS	4093356	SWWW0293-082121	MS	INITIAL	AsTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:43	EPA 200.8	0.0044	0.1	0.11	0.000083	0.0005	mg/L	101	0	70	130	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	CaDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	CaDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	2	2.1	0.018	0.04	mg/L	105	0	85	115	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	CaDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	CaDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	2	2.1	0.018	0.04	mg/L	103	0	85	115	0
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	CaDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	15.8	2	17.7	0.018	0.04	mg/L	95	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	CaDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	15.8	2	19.1	0.018	0.04	mg/L	165	8	70	130	20
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	CaDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	268	2	266	0.018	0.04	mg/L	0	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	CaDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	14.9	2	16.8	0.018	0.04	mg/L	96	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	CaDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	14.9	2	16.4	0.018	0.04	mg/L	73	3	70	130	20
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	INITIAL	CaDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 11:53	EPA 200.8	120	2	120	0.018	0.04	mg/L	0	0	70	130	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	REANALYSIS	CaDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-09 02:37	EPA 200.8	0	0	0.018	0.018	0.04	mg/L	0	0	0	0	0
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	CaDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	2	2.1	0.018	0.04	mg/L	106	0	85	115	0
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	104	0	85	115	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	CdDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	0.1	0.098	0.000016	0.00008	mg/L	98	0	85	115	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	CdDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	CdDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	0.0001	0.1	0.1	0.000016	0.00008	mg/L	101	1	70	130	20
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	CdDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	0.00013	0.1	0.092	0.000016	0.00008	mg/L	92	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	CdDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	0.0001	0.1	0.1	0.000016	0.00008	mg/L	100	0	70	130	0
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	CdDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	107	0	85	115	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	INITIAL	CdDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:49	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	CdDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	0.000054	0.1	0.11	0.000016	0.00008	mg/L	108	0	70	130	20
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	CdDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	0.000054	0.1	0.11	0.000016	0.00008	mg/L	108	0	70	130	0
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	INITIAL	CdDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 11:53	EPA 200.8	0.000058	0.1	0.11	0.000016	0.00008	mg/L	106	0	70	130	0
10576060	766505_10576060	4084565BLANK_10576060	4084565		MB	INITIAL	CdTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.000024	0.000016	0.00008	mg/L	0	0	0	0	0
10576060	766505_10576060	4084566LCS_10576060	4084566		LCS	INITIAL	CdTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.098	0.000016	0.00008	mg/L	98	0	85	115	0
10576060	766506_10576060	4084572LCS_10576060	4084572		LCS	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:58	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	100	0	85	115	0
10576060	766506_10576060	4084571BLANK_10576060	4084571		MB	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:55	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10576060	766506_10576060	SWWW0294-082121MS	4084573	SWWW0294-082121	MS	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:13	EPA 200.8	0.00014	0.1	0.1	0.000016	0.00008	mg/L	104	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MSD	4084574	SWWW0294-082121	MSD	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:16	EPA 200.8	0.00014	0.1	0.1	0.000016	0.00008	mg/L	102	2	70	130	20
10576060	766506_10576060	SWWW0304-082121MS	4084575	SWWW0304-082121	MS	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 09:01	EPA 200.8	0.00039	0.1	0.098	0.000016	0.00008	mg/L	98	0	70	130	0
10576060	766508_10576060	4084581BLANK_10576060	4084581		MB	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:49	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10576060	766508_10576060	4084582LCS_10576060	4084582		LCS	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:52	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	101	0	85	115	0
10576060	766508_10576060	SWWW0324-082121MS	4084585	SWWW0324-082121	MS	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:56	EPA 200.8	0.00028	0.1	0.1	0.000016	0.00008	mg/L	100	0	70	130	0
10576060	766508_10576060	SWWW0314-082121MSD	4084584	SWWW0314-082121	MSD	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:10	EPA 200.8	0.00022	0.1	0.1	0.000016	0.00008	mg/L	105	3	70	130	20
10576060	766508_10576060	SWWW0314-082121MS	4084583	SWWW0314-082121	MS	INITIAL	CdTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:07	EPA 200.8	0.00022	0.1	0.1	0.000016	0.00008	mg/L	102	0	70	130	0
10576060	768142_10576060	4093355LCS_10576060	4093355		LCS	INITIAL	CdTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:29	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	105	0	85	115	0
10576060	768142_10576060	4093354BLANK_10576060	4093354		MB	INITIAL	CdTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:26	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
10576060	768142_10576060	SWWW0293-082121MS	4093356	SWWW0293-082121	MS	INITIAL	CdTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:43	EPA 200.8	0.000092	0.1	0.1	0.000016	0.00008	mg/L	102	0	70	130	0
10576060	768142_10576060	SWWW0293-082121MSD	4093357	SWWW0293-082121	MSD	INITIAL	CdTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:47	EPA 200.8	0.000092	0.1	0.11	0.000016	0.00008	mg/L	108	6	70	130	20
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	114	0	85	115	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	CuDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	CuDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	102	0	85	115	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	CuDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	0.024	0.1	0.13	0.0005	0.001	mg/L	111	5	70	130	20
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	CuDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	0.0062	0.1	0.1	0.0005	0.001	mg/L	97	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	CuDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	0.024	0.1	0.13	0.0005	0.001	mg/L	104	0	70	130	0
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	CuDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	111	0	85	115	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	INITIAL	CuDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:49	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	INITIAL	CuDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 11:53	EPA 200.8	0.0081	0.1	0.12	0.0005	0.001	mg/L	108	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	CuDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	0.0076	0.1	0.12	0.0005	0.001	mg/L	109	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	CuDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	0.0076	0.1	0.12	0.0005	0.001	mg/L	109	1	70	130	20
10576060	766505_10576060	4084565BLANK_10576060	4084565		MB	INITIAL	CuTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10576060	766505_10576060	4084566LCS_10576060	4084566		LCS	INITIAL	CuTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.097	0.0005	0.001	mg/L	97	0	85	115	0
10576060	766506_10576060	4084571BLANK_10576060	4084571		MB	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:55	EPA 200.8	0	0	0.002	0.0005	0.001	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10576060	766506_10576060	4084572LCS_10576060	4084572		LCS	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:58	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	102	0	85	115	0
10576060	766506_10576060	SWWW0294-082121MS	4084573	SWWW0294-082121	MS	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:13	EPA 200.8	0.03	0.1	0.13	0.0005	0.001	mg/L	101	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MSD	4084574	SWWW0294-082121	MSD	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:16	EPA 200.8	0.03	0.1	0.13	0.0005	0.001	mg/L	99	2	70	130	20
10576060	766506_10576060	SWWW0304-082121MS	4084575	SWWW0304-082121	MS	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 09:01	EPA 200.8	0.052	0.1	0.15	0.0005	0.001	mg/L	97	0	70	130	0
10576060	766508_10576060	4084582LCS_10576060	4084582		LCS	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:52	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	107	0	85	115	0
10576060	766508_10576060	4084581BLANK_10576060	4084581		MB	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:49	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10576060	766508_10576060	SWWW0324-082121MS	4084585	SWWW0324-082121	MS	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:56	EPA 200.8	0.038	0.1	0.14	0.0005	0.001	mg/L	97	0	70	130	0
10576060	766508_10576060	SWWW0314-082121MS	4084583	SWWW0314-082121	MS	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:07	EPA 200.8	0.04	0.1	0.15	0.0005	0.001	mg/L	111	0	70	130	0
10576060	766508_10576060	SWWW0314-082121MSD	4084584	SWWW0314-082121	MSD	INITIAL	CuTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:10	EPA 200.8	0.04	0.1	0.14	0.0005	0.001	mg/L	102	6	70	130	20
10576060	768142_10576060	4093354BLANK_10576060	4093354		MB	INITIAL	CuTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:26	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
10576060	768142_10576060	4093355LCS_10576060	4093355		LCS	INITIAL	CuTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:29	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	110	0	85	115	0
10576060	768142_10576060	SWWW0293-082121MSD	4093357	SWWW0293-082121	MSD	INITIAL	CuTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:47	EPA 200.8	0.018	0.1	0.13	0.0005	0.001	mg/L	108	4	70	130	20
10576060	768142_10576060	SWWW0293-082121MS	4093356	SWWW0293-082121	MS	INITIAL	CuTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:43	EPA 200.8	0.018	0.1	0.12	0.0005	0.001	mg/L	103	0	70	130	0
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	108	0	85	115	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	FeDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	FeDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	FeDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	0.01	2	1.9	0.012	0.05	mg/L	97	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	FeDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	1.7	2	3.9	0.012	0.05	mg/L	113	4	70	130	20
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	FeDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	1.7	2	3.8	0.012	0.05	mg/L	106	0	70	130	0
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	FeDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	REANALYSIS	FeDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-09 02:37	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	REANALYSIS	FeDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-09 03:41	EPA 200.8	0.032	2	2.2	0.012	0.05	mg/L	109	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	FeDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	0.028	2	2.1	0.012	0.05	mg/L	104	0	70	130	20
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	FeDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	0.028	2	2.1	0.012	0.05	mg/L	103	0	70	130	0
10576060	766505_10576060	4084565BLANK_10576060	4084565		MB	INITIAL	FeTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10576060	766505_10576060	4084566LCS_10576060	4084566		LCS	INITIAL	FeTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	105	0	85	115	0
10576060	766506_10576060	4084571BLANK_10576060	4084571		MB	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:55	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10576060	766506_10576060	4084572LCS_10576060	4084572		LCS	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:58	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	105	0	85	115	0
10576060	766506_10576060	SWWW0294-082121MSD	4084574	SWWW0294-082121	MSD	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:16	EPA 200.8	2.3	2	4.2	0.012	0.05	mg/L	97	4	70	130	20
10576060	766506_10576060	SWWW0294-082121MS	4084573	SWWW0294-082121	MS	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:13	EPA 200.8	2.3	2	4.4	0.012	0.05	mg/L	105	0	70	130	0
10576060	766506_10576060	SWWW0304-082121MS	4084575	SWWW0304-082121	MS	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 09:01	EPA 200.8	2.2	2	4.4	0.012	0.05	mg/L	106	0	70	130	0
10576060	766508_10576060	4084581BLANK_10576060	4084581		MB	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:49	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10576060	766508_10576060	4084582LCS_10576060	4084582		LCS	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:52	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	105	0	85	115	0
10576060	766508_10576060	SWWW0314-082121MSD	4084584	SWWW0314-082121	MSD	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:10	EPA 200.8	1.4	2	3.3	0.012	0.05	mg/L	93	24	70	130	20
10576060	766508_10576060	SWWW0314-082121MS	4084583	SWWW0314-082121	MS	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:07	EPA 200.8	1.4	2	4.2	0.012	0.05	mg/L	138	0	70	130	0
10576060	766508_10576060	SWWW0324-082121MS	4084585	SWWW0324-082121	MS	INITIAL	FeTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:56	EPA 200.8	1.4	2	3.3	0.012	0.05	mg/L	99	0	70	130	0
10576060	768142_10576060	4093354BLANK_10576060	4093354		MB	INITIAL	FeTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:26	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
10576060	768142_10576060	4093355LCS_10576060	4093355		LCS	INITIAL	FeTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:29	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	105	0	85	115	0
10576060	768142_10576060	SWWW0293-082121MS	4093356	SWWW0293-082121	MS	INITIAL	FeTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:43	EPA 200.8	1.5	2	3.3	0.012	0.05	mg/L	92	0	70	130	0
10576060	768142_10576060	SWWW0293-082121MSD	4093357	SWWW0293-082121	MSD	INITIAL	FeTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:47	EPA 200.8	1.5	2	3.6	0.012	0.05	mg/L	104	7	70	130	20
10576060	766485_10576060	4084466BLANK_10576060	4084466		MB	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:57	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10576060	766485_10576060	4084467LCS_10576060	4084467		LCS	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:58	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	101	0	85	115	0
10576060	766486_10576060	4084472BLANK_10576060	4084472		MB	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 08:06	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10576060	766486_10576060	4084473LCS_10576060	4084473		LCS	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 08:07	EPA 245.1	0	0.005	0.0046	0.000045	0.0002	mg/L	92	0	85	115	0
10576060	766486_10576060	SWWW0293-082121MS	4084474	SWWW0293-082121	MS	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 08:10	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	99	0	70	130	0
10576060	766486_10576060	SWWW0303-082121MS	4084476	SWWW0303-082121	MS	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 08:30	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	97	0	70	130	0
10576060	766486_10576060	SWWW0293-082121MSD	4084475	SWWW0293-082121	MSD	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 08:12	EPA 245.1	0	0.005	0.0047	0.000045	0.0002	mg/L	93	6	70	130	20
10576060	766487_10576060	4084477BLANK_10576060	4084477		MB	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 07:19	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10576060	766487_10576060	4084478LCS_10576060	4084478		LCS	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 07:21	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	97	0	85	115	0
10576060	766487_10576060	SWWW0323-082121MS	4084481	SWWW0323-082121	MS	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 07:44	EPA 245.1	0	0.005	0.0046	0.000045	0.0002	mg/L	93	0	70	130	0
10576060	766487_10576060	SWWW0313-082121MS	4084479	SWWW0313-082121	MS	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 07:24	EPA 245.1	0	0.005	0.0047	0.000045	0.0002	mg/L	94	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10576060	766487_10576060	SWWW0313-082121MSD	4084480	SWWW0313-082121	MSD	INITIAL	HgDis	D	1	2021-08-27 12:44	EPA 245.1	2021-09-01 07:25	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	97	3	70	130	20
10576060	766491_10576060	4084498BLANK_10576060	4084498		MB	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-08 02:23	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10576060	766491_10576060	4084499LCS_10576060	4084499		LCS	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-08 02:24	EPA 245.1	0	0.005	0.0055	0.000045	0.0002	mg/L	109	0	85	115	0
10576060	766492_10576060	4084504BLANK_10576060	4084504		MB	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 02:16	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10576060	766492_10576060	4084505LCS_10576060	4084505		LCS	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 02:17	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	101	0	85	115	0
10576060	766492_10576060	SWWW0293-082121MSD	4084507	SWWW0293-082121	MSD	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 02:21	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	3	70	130	20
10576060	766492_10576060	SWWW0303-082121MS	4084508	SWWW0303-082121	MS	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 02:40	EPA 245.1	0.00002	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10576060	766492_10576060	SWWW0293-082121MS	4084506	SWWW0293-082121	MS	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 02:20	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
10576060	766493_10576060	4084509BLANK_10576060	4084509		MB	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 03:50	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
10576060	766493_10576060	4084510LCS_10576060	4084510		LCS	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 03:52	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	101	0	85	115	0
10576060	766493_10576060	SWWW0313-082121MSD	4084512	SWWW0313-082121	MSD	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 03:56	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	103	2	70	130	20
10576060	766493_10576060	SWWW0313-082121MS	4084511	SWWW0313-082121	MS	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 03:55	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
10576060	766493_10576060	SWWW0323-082121MS	4084513	SWWW0323-082121	MS	INITIAL	HgTR	T	1	2021-08-30 03:00	EPA 245.1	2021-09-07 04:15	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	103	0	70	130	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	MgDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.0034	0.0034	0.01	mg/L	0	0	0	0	0
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	MgDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	2	2.1	0.0034	0.01	mg/L	106	0	85	115	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	MgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.0041	0.0034	0.01	mg/L	0	0	0	0	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	MgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	2	2	0.0034	0.01	mg/L	102	0	85	115	0
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	MgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	7.3	2	9.5	0.0034	0.01	mg/L	108	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	MgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	4.2	2	6.2	0.0034	0.01	mg/L	104	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	MgDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	4.2	2	6.5	0.0034	0.01	mg/L	118	4	70	130	20
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	MgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	2	2.1	0.0034	0.01	mg/L	103	0	85	115	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	INITIAL	MgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:49	EPA 200.8	0	0	0.0043	0.0034	0.01	mg/L	0	0	0	0	0
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	INITIAL	MgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 11:53	EPA 200.8	5.8	2	7.7	0.0034	0.01	mg/L	92	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	MgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	3.5	2	5.5	0.0034	0.01	mg/L	100	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	MgDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	3.5	2	5.4	0.0034	0.01	mg/L	93	2	70	130	20
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	MoDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	101	0	85	115	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	MoDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	MoDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	0.1	0.096	0.000094	0.0005	mg/L	96	0	85	115	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	MoDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	MoDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	0.0025	0.1	0.1	0.000094	0.0005	mg/L	99	1	70	130	20
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	MoDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	0.0025	0.1	0.1	0.000094	0.0005	mg/L	99	0	70	130	0
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	MoDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	0.4	0.1	0.51	0.000094	0.0005	mg/L	110	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	MoDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	0.0024	0.1	0.11	0.000094	0.0005	mg/L	104	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	MoDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	0.0024	0.1	0.11	0.000094	0.0005	mg/L	106	2	70	130	20
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	INITIAL	MoDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 11:53	EPA 200.8	0.17	0.1	0.27	0.000094	0.0005	mg/L	102	0	70	130	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	INITIAL	MoDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:49	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	MoDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	103	0	85	115	0
10576060	766505_10576060	4084566LCS_10576060	4084566		LCS	INITIAL	MoTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.097	0.000094	0.0005	mg/L	97	0	85	115	0
10576060	766505_10576060	4084565BLANK_10576060	4084565		MB	INITIAL	MoTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.00014	0.000094	0.0005	mg/L	0	0	0	0	0
10576060	766506_10576060	4084572LCS_10576060	4084572		LCS	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:58	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	100	0	85	115	0
10576060	766506_10576060	4084571BLANK_10576060	4084571		MB	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:55	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10576060	766506_10576060	SWWW0294-082121MS	4084573	SWWW0294-082121	MS	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:13	EPA 200.8	0.0028	0.1	0.11	0.000094	0.0005	mg/L	104	0	70	130	0
10576060	766506_10576060	SWWW0304-082121MS	4084575	SWWW0304-082121	MS	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 09:01	EPA 200.8	0.42	0.1	0.51	0.000094	0.0005	mg/L	88	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MSD	4084574	SWWW0294-082121	MSD	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:16	EPA 200.8	0.0028	0.1	0.1	0.000094	0.0005	mg/L	102	2	70	130	20
10576060	766508_10576060	4084582LCS_10576060	4084582		LCS	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:52	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	101	0	85	115	0
10576060	766508_10576060	4084581BLANK_10576060	4084581		MB	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:49	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10576060	766508_10576060	SWWW0314-082121MSD	4084584	SWWW0314-082121	MSD	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:10	EPA 200.8	0.0022	0.1	0.11	0.000094	0.0005	mg/L	103	2	70	130	20
10576060	766508_10576060	SWWW0314-082121MS	4084583	SWWW0314-082121	MS	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:07	EPA 200.8	0.0022	0.1	0.1	0.000094	0.0005	mg/L	101	0	70	130	0
10576060	766508_10576060	SWWW0324-082121MS	4084585	SWWW0324-082121	MS	INITIAL	MoTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:56	EPA 200.8	0.15	0.1	0.25	0.000094	0.0005	mg/L	100	0	70	130	0
10576060	768142_10576060	SWWW0293-082121MSD	4093357	SWWW0293-082121	MSD	INITIAL	MoTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:47	EPA 200.8	0.004	0.1	0.11	0.000094	0.0005	mg/L	105	6	70	130	20
10576060	768142_10576060	4093354BLANK_10576060	4093354		MB	INITIAL	MoTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:26	EPA 200.8	0	0	0.000094	0.000094	0.0005	mg/L	0	0	0	0	0
10576060	768142_10576060	SWWW0293-082121MS	4093356	SWWW0293-082121	MS	INITIAL	MoTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:43	EPA 200.8	0.004	0.1	0.1	0.000094	0.0005	mg/L	99	0	70	130	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10576060	768142_10576060	4093355LCS_10576060	4093355		LCS	INITIAL	MoTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:29	EPA 200.8	0	0.1	0.1	0.000094	0.0005	mg/L	103	0	85	115	0
10576060	769076_10576060	4098040BLANK_10576060	4098040		MB	INITIAL	NO3/NO2-N	T	1	2021-09-09 12:42	METHOD	2021-09-09 12:42	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10576060	769076_10576060	4098041LCS_10576060	4098041		LCS	INITIAL	NO3/NO2-N	T	1	2021-09-09 12:42	METHOD	2021-09-09 12:42	SM 4500-NO3-H	0	2.5	2.4	0.078	0.2	mg/L	97	0	90	110	0
10576060	769076_10576060	SWWW0293-082121MS	4098042	SWWW0293-082121	MS	INITIAL	NO3/NO2-N	T	1	2021-09-09 12:46	METHOD	2021-09-09 12:46	SM 4500-NO3-H	0.82	2.5	3.4	0.078	0.2	mg/L	103	0	80	120	0
10576060	769076_10576060	SWWW0293-082121MSD	4098043	SWWW0293-082121	MSD	INITIAL	NO3/NO2-N	T	1	2021-09-09 12:46	METHOD	2021-09-09 12:46	SM 4500-NO3-H	0.82	2.5	3.6	0.078	0.2	mg/L	110	5	80	120	20
10576060	769076_10576060	SWWW0294-082121MS	4098044	SWWW0294-082121	MS	INITIAL	NO3/NO2-N	T	1	2021-09-09 12:50	METHOD	2021-09-09 12:50	SM 4500-NO3-H	0.5	2.5	3.1	0.078	0.2	mg/L	105	0	80	120	0
10576060	769076_10576060	SWWW0294-082121MSD	4098045	SWWW0294-082121	MSD	INITIAL	NO3/NO2-N	T	1	2021-09-09 12:50	METHOD	2021-09-09 12:50	SM 4500-NO3-H	0.5	2.5	3	0.078	0.2	mg/L	100	4	80	120	20
10576060	769077_10576060	4098046BLANK_10576060	4098046		MB	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:15	METHOD	2021-09-09 01:15	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10576060	769077_10576060	4098047LCS_10576060	4098047		LCS	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:16	METHOD	2021-09-09 01:16	SM 4500-NO3-H	0	2.5	2.5	0.078	0.2	mg/L	100	0	90	110	0
10576060	769077_10576060	SWWW0313-082121MSD	4098049	SWWW0313-082121	MSD	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:22	METHOD	2021-09-09 01:22	SM 4500-NO3-H	0.5	2.5	3.1	0.078	0.2	mg/L	102	5	80	120	20
10576060	769077_10576060	SWWW0313-082121MS	4098048	SWWW0313-082121	MS	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:20	METHOD	2021-09-09 01:20	SM 4500-NO3-H	0.5	2.5	3.2	0.078	0.2	mg/L	109	0	80	120	0
10576060	769077_10576060	SWWW0314-082121MS	4098050	SWWW0314-082121	MS	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:24	METHOD	2021-09-09 01:24	SM 4500-NO3-H	0.49	2.5	3.1	0.078	0.2	mg/L	103	0	80	120	0
10576060	769077_10576060	SWWW0314-082121MSD	4098051	SWWW0314-082121	MSD	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:25	METHOD	2021-09-09 01:25	SM 4500-NO3-H	0.49	2.5	3	0.078	0.2	mg/L	102	1	80	120	20
10576060	769080_10576060	SWWW0333-082121MSD	4098069	SWWW0333-082121	MSD	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:52	METHOD	2021-09-09 01:52	SM 4500-NO3-H	0.62	2.5	3.2	0.078	0.2	mg/L	104	1	80	120	20
10576060	769080_10576060	SWWW0333-082121MS	4098068	SWWW0333-082121	MS	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:50	METHOD	2021-09-09 01:50	SM 4500-NO3-H	0.62	2.5	3.2	0.078	0.2	mg/L	103	0	80	120	0
10576060	769080_10576060	4098066BLANK_10576060	4098066		MB	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:48	METHOD	2021-09-09 01:48	SM 4500-NO3-H	0	0	0.078	0.078	0.2	mg/L	0	0	0	0	0
10576060	769080_10576060	4098067LCS_10576060	4098067		LCS	INITIAL	NO3/NO2-N	T	1	2021-09-09 01:49	METHOD	2021-09-09 01:49	SM 4500-NO3-H	0	2.5	2.4	0.078	0.2	mg/L	97	0	90	110	0
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	104	0	85	115	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	PbDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	PbDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	100	0	85	115	0
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	PbDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	0.000082	0.1	0.099	0.000028	0.0001	mg/L	99	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	PbDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	0.0074	0.1	0.12	0.000028	0.0001	mg/L	110	4	70	130	20
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	PbDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	0.0074	0.1	0.11	0.000028	0.0001	mg/L	106	0	70	130	0
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	PbDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	108	0	85	115	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	INITIAL	PbDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:49	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	INITIAL	PbDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 11:53	EPA 200.8	0.00032	0.1	0.11	0.000028	0.0001	mg/L	107	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	PbDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	0.00018	0.1	0.11	0.000028	0.0001	mg/L	108	0	70	130	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	PbDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	0.00018	0.1	0.11	0.000028	0.0001	mg/L	108	0	70	130	20
10576060	766505_10576060	4084566LCS_10576060	4084566		LCS	INITIAL	PbTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.098	0.000028	0.0001	mg/L	98	0	85	115	0
10576060	766505_10576060	4084565BLANK_10576060	4084565		MB	INITIAL	PbTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10576060	766506_10576060	4084572LCS_10576060	4084572		LCS	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:58	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	107	0	85	115	0
10576060	766506_10576060	4084571BLANK_10576060	4084571		MB	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:55	EPA 200.8	0	0	0.00011	0.000028	0.0001	mg/L	0	0	0	0	0
10576060	766506_10576060	SWWW0294-082121MS	4084573	SWWW0294-082121	MS	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:13	EPA 200.8	0.01	0.1	0.12	0.000028	0.0001	mg/L	107	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MSD	4084574	SWWW0294-082121	MSD	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:16	EPA 200.8	0.01	0.1	0.12	0.000028	0.0001	mg/L	107	0	70	130	20
10576060	766506_10576060	SWWW0304-082121MS	4084575	SWWW0304-082121	MS	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 09:01	EPA 200.8	0.029	0.1	0.13	0.000028	0.0001	mg/L	102	0	70	130	0
10576060	766508_10576060	4084582LCS_10576060	4084582		LCS	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:52	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	107	0	85	115	0
10576060	766508_10576060	4084581BLANK_10576060	4084581		MB	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:49	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10576060	766508_10576060	SWWW0314-082121MSD	4084584	SWWW0314-082121	MSD	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:10	EPA 200.8	0.012	0.1	0.12	0.000028	0.0001	mg/L	108	2	70	130	20
10576060	766508_10576060	SWWW0314-082121MS	4084583	SWWW0314-082121	MS	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:07	EPA 200.8	0.012	0.1	0.12	0.000028	0.0001	mg/L	105	0	70	130	0
10576060	766508_10576060	SWWW0324-082121MS	4084585	SWWW0324-082121	MS	INITIAL	PbTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:56	EPA 200.8	0.022	0.1	0.12	0.000028	0.0001	mg/L	99	0	70	130	0
10576060	768142_10576060	4093354BLANK_10576060	4093354		MB	INITIAL	PbTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:26	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
10576060	768142_10576060	4093355LCS_10576060	4093355		LCS	INITIAL	PbTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:29	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	107	0	85	115	0
10576060	768142_10576060	SWWW0293-082121MS	4093356	SWWW0293-082121	MS	INITIAL	PbTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:43	EPA 200.8	0.0045	0.1	0.11	0.000028	0.0001	mg/L	102	0	70	130	0
10576060	768142_10576060	SWWW0293-082121MSD	4093357	SWWW0293-082121	MSD	INITIAL	PbTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:47	EPA 200.8	0.0045	0.1	0.11	0.000028	0.0001	mg/L	106	3	70	130	20
10576060	767242_10576060	4088561BLANK_10576060	4088561		MB	INITIAL	SO4	T	1	2021-09-02 04:27	METHOD	2021-09-02 04:27	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10576060	767242_10576060	4088562LCS_10576060	4088562		LCS	INITIAL	SO4	T	1	2021-09-02 04:26	METHOD	2021-09-02 04:26	ASTM D516-90-02	0	20	17.9	1.2	2.5	mg/L	90	0	80	120	0
10576060	767242_10576060	4088563LCSD_10576060	4088563	4088562LCS_10576060	LCSD	INITIAL	SO4	T	1	2021-09-02 04:27	METHOD	2021-09-02 04:27	ASTM D516-90-02	0	20	17.6	1.2	2.5	mg/L	88	2	80	120	20
10576060	768420_10576060	4094938BLANK_10576060	4094938		MB	INITIAL	SO4	T	1	2021-09-07 05:49	METHOD	2021-09-07 05:49	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10576060	768420_10576060	4094939LCS_10576060	4094939		LCS	INITIAL	SO4	T	1	2021-09-07 05:47	METHOD	2021-09-07 05:47	ASTM D516-90-02	0	20	17.8	1.2	2.5	mg/L	89	0	80	120	0
10576060	768420_10576060	4094940LCSD_10576060	4094940	4094939LCS_10576060	LCSD	INITIAL	SO4	T	1	2021-09-07 05:47	METHOD	2021-09-07 05:47	ASTM D516-90-02	0	20	17.6	1.2	2.5	mg/L	88	1	80	120	20
10576060	768420_10576060	SWWW0296-082121MS	4094941	SWWW0296-082121	MS	INITIAL	SO4	T	4	2021-09-07 04:52	METHOD	2021-09-07 04:52	ASTM D516-90-02	18.3	40	55.2	4.8	10	mg/L	92	0	80	120	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10576060	768420_10576060	SWWW0296-082121MSD	4094942	SWWW0296-082121	MSD	INITIAL	SO4	T	4	2021-09-07 04:53	METHOD	2021-09-07 04:53	ASTM D516-90-02	18.3	40	59.1	4.8	10	mg/L	102	7	80	120	30
10576060	768420_10576060	SWWW0297-082121MS	4094943	SWWW0297-082121	MS	INITIAL	SO4	T	20	2021-09-07 04:54	METHOD	2021-09-07 04:54	ASTM D516-90-02	313	200	549	24.2	50	mg/L	118	0	80	120	0
10576060	768420_10576060	SWWW0297-082121MSD	4094944	SWWW0297-082121	MSD	INITIAL	SO4	T	20	2021-09-07 04:54	METHOD	2021-09-07 04:54	ASTM D516-90-02	313	200	586	24.2	50	mg/L	136	6	80	120	30
10576060	768421_10576060	4094945BLANK_10576060	4094945		MB	INITIAL	SO4	T	1	2021-09-07 05:49	METHOD	2021-09-07 05:49	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10576060	768421_10576060	4094946LCS_10576060	4094946		LCS	INITIAL	SO4	T	1	2021-09-07 05:44	METHOD	2021-09-07 05:44	ASTM D516-90-02	0	20	17.6	1.2	2.5	mg/L	88	0	80	120	0
10576060	768421_10576060	4094947LCSD_10576060	4094947	4094946LCS_10576060	LCSD	INITIAL	SO4	T	1	2021-09-07 05:46	METHOD	2021-09-07 05:46	ASTM D516-90-02	0	20	17.6	1.2	2.5	mg/L	88	0	80	120	20
10576060	768421_10576060	SWWW0316-082121MS	4094948	SWWW0316-082121	MS	INITIAL	SO4	T	2	2021-09-07 05:07	METHOD	2021-09-07 05:07	ASTM D516-90-02	14.8	40	59.7	2.4	5	mg/L	112	0	80	120	0
10576060	768421_10576060	SWWW0316-082121MSD	4094949	SWWW0316-082121	MSD	INITIAL	SO4	T	2	2021-09-07 05:07	METHOD	2021-09-07 05:07	ASTM D516-90-02	14.8	40	53.5	2.4	5	mg/L	97	11	80	120	30
10576060	768422_10576060	4094950BLANK_10576060	4094950		MB	INITIAL	SO4	T	1	2021-09-07 05:48	METHOD	2021-09-07 05:48	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
10576060	768422_10576060	4094951LCS_10576060	4094951		LCS	INITIAL	SO4	T	1	2021-09-07 05:47	METHOD	2021-09-07 05:47	ASTM D516-90-02	0	20	17.2	1.2	2.5	mg/L	86	0	80	120	0
10576060	768422_10576060	4094952LCSD_10576060	4094952	4094951LCS_10576060	LCSD	INITIAL	SO4	T	1	2021-09-07 05:48	METHOD	2021-09-07 05:48	ASTM D516-90-02	0	20	17.8	1.2	2.5	mg/L	89	4	80	120	20
10576060	766443_10576060	SWWW0294-082121DUP	4084231	SWWW0294-082121	LR	INITIAL	TDS	D	1	2021-08-27 07:53	METHOD	2021-08-27 07:53	SM 2540C	96	0	89	5	10	mg/L	0	8	0	0	5
10576060	766443_10576060	SWWW0293-082121DUP	4084230	SWWW0293-082121	LR	INITIAL	TDS	D	1	2021-08-27 07:53	METHOD	2021-08-27 07:53	SM 2540C	126	0	126	5	10	mg/L	0	0	0	0	5
10576060	766443_10576060	4084228BLANK_10576060	4084228		MB	INITIAL	TDS	D	1	2021-08-27 07:53	METHOD	2021-08-27 07:53	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10576060	766443_10576060	4084229LCS_10576060	4084229		LCS	INITIAL	TDS	D	1	2021-08-27 07:53	METHOD	2021-08-27 07:53	SM 2540C	0	1000	1020	10	20	mg/L	102	0	80	120	0
10576060	766444_10576060	4084232BLANK_10576060	4084232		MB	INITIAL	TDS	D	1	2021-08-27 09:19	METHOD	2021-08-27 09:19	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0
10576060	766444_10576060	4084233LCS_10576060	4084233		LCS	INITIAL	TDS	D	1	2021-08-27 09:19	METHOD	2021-08-27 09:19	SM 2540C	0	1000	1020	10	20	mg/L	102	0	80	120	0
10576060	766444_10576060	SWWW0313-082121DUP	4084234	SWWW0313-082121	LR	INITIAL	TDS	D	1	2021-08-27 09:19	METHOD	2021-08-27 09:19	SM 2540C	87	0	93	5	10	mg/L	0	7	0	0	5
10576060	766444_10576060	SWWW0314-082121DUP	4084235	SWWW0314-082121	LR	INITIAL	TDS	D	1	2021-08-27 09:19	METHOD	2021-08-27 09:19	SM 2540C	100	0	95	5	10	mg/L	0	5	0	0	5
10576060	766446_10576060	SWWW0333-082121DUP	4084242	SWWW0333-082121	LR	INITIAL	TDS	D	1	2021-08-27 09:58	METHOD	2021-08-27 09:58	SM 2540C	514	0	518	5	10	mg/L	0	1	0	0	5
10576060	766446_10576060	4084240BLANK_10576060	4084240		MB	INITIAL	TDS	D	1	2021-08-27 09:58	METHOD	2021-08-27 09:58	SM 2540C	0	0	5	5	10	mg/L	0	0	0	0	0

Table A6d. BPSOU 2021 Wet Weather Data Quality Assessment - Laboratory Quality Control

SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10576060	766446_10576060	4084241LCS_10576060	4084241		LCS	INITIAL	TDS	D	1	2021-08-27 09:58	METHOD	2021-08-27 09:58	SM 2540C	0	1000	1010	10	20	mg/L	101	0	80	120	0
10576060	766440_10576060	4084224BLANK_10576060	4084224		MB	INITIAL	TSS	T	1	2021-08-27 07:54	METHOD	2021-08-27 07:54	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10576060	766440_10576060	4084225LCS_10576060	4084225		LCS	INITIAL	TSS	T	1	2021-08-27 07:54	METHOD	2021-08-27 07:54	SM 2540D	0	100	99.4	10	20	mg/L	99	0	80	120	0
10576060	766440_10576060	SWWW0293-082121DUP	4084226	SWWW0293-082121	LR	INITIAL	TSS	T	1	2021-08-27 07:54	METHOD	2021-08-27 07:54	SM 2540D	39.9	0	38.9	5	10	mg/L	0	3	0	0	5
10576060	766440_10576060	SWWW0294-082121DUP	4084227	SWWW0294-082121	LR	INITIAL	TSS	T	1	2021-08-27 07:54	METHOD	2021-08-27 07:54	SM 2540D	81	0	73.7	5	10	mg/L	0	9	0	0	5
10576060	766445_10576060	SWWW0313-082121DUP	4084238	SWWW0313-082121	LR	INITIAL	TSS	T	1	2021-08-27 09:16	METHOD	2021-08-27 09:16	SM 2540D	68.6	0	77.6	5	10	mg/L	0	12	0	0	5
10576060	766445_10576060	4084236BLANK_10576060	4084236		MB	INITIAL	TSS	T	1	2021-08-27 09:16	METHOD	2021-08-27 09:16	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10576060	766445_10576060	4084237LCS_10576060	4084237		LCS	INITIAL	TSS	T	1	2021-08-27 09:16	METHOD	2021-08-27 09:16	SM 2540D	0	100	102	10	20	mg/L	102	0	80	120	0
10576060	766445_10576060	SWWW0314-082121DUP	4084239	SWWW0314-082121	LR	INITIAL	TSS	T	1	2021-08-27 09:16	METHOD	2021-08-27 09:16	SM 2540D	131	0	138	5	10	mg/L	0	5	0	0	5
10576060	766448_10576060	SWWW0333-082121DUP	4084245	SWWW0333-082121	LR	INITIAL	TSS	T	1	2021-08-27 09:58	METHOD	2021-08-27 09:58	SM 2540D	44.4	0	43.7	5	10	mg/L	0	2	0	0	5
10576060	766448_10576060	4084243BLANK_10576060	4084243		MB	INITIAL	TSS	T	1	2021-08-27 09:58	METHOD	2021-08-27 09:58	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
10576060	766448_10576060	4084244LCS_10576060	4084244		LCS	INITIAL	TSS	T	1	2021-08-27 09:58	METHOD	2021-08-27 09:58	SM 2540D	0	100	100	10	20	mg/L	100	0	80	120	0
10576060	766500_10576060	4084539BLANK_10576060	4084539		MB	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10576060	766500_10576060	4084540LCS_10576060	4084540		LCS	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	108	0	85	115	0
10576060	766501_10576060	4084546LCS_10576060	4084546		LCS	INITIAL	ZnDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 10:56	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	101	0	85	115	0
10576060	766501_10576060	4084545BLANK_10576060	4084545		MB	INITIAL	ZnDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 09:48	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10576060	766501_10576060	SWWW0304-082121MS	4084549	SWWW0304-082121	MS	INITIAL	ZnDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-02 12:03	EPA 200.8	0.025	0.1	0.12	0.002	0.005	mg/L	95	0	70	130	0
10576060	766501_10576060	SWWW0294-082121MSD	4084548	SWWW0294-082121	MSD	INITIAL	ZnDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:34	EPA 200.8	0.039	0.1	0.15	0.002	0.005	mg/L	108	3	70	130	20
10576060	766501_10576060	SWWW0294-082121MS	4084547	SWWW0294-082121	MS	INITIAL	ZnDis	D	1	2021-08-27 12:18	EPA 200.8	2021-09-01 10:30	EPA 200.8	0.039	0.1	0.14	0.002	0.005	mg/L	103	0	70	130	0
10576060	768140_10576060	4093350LCS_10576060	4093350		LCS	INITIAL	ZnDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 09:53	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	108	0	85	115	0
10576060	768140_10576060	4093349BLANK_10576060	4093349		MB	REANALYSIS	ZnDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-09 02:37	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10576060	768140_10576060	SWWW0313-082121MSD	4093352	SWWW0313-082121	MSD	INITIAL	ZnDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:10	EPA 200.8	0.019	0.1	0.11	0.002	0.005	mg/L	95	2	70	130	20
10576060	768140_10576060	SWWW0313-082121MS	4093351	SWWW0313-082121	MS	INITIAL	ZnDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 10:06	EPA 200.8	0.019	0.1	0.12	0.002	0.005	mg/L	97	0	70	130	0
10576060	768140_10576060	SWWW0323-082121MS	4093353	SWWW0323-082121	MS	INITIAL	ZnDis	D	1	2021-09-07 05:06	EPA 200.8	2021-09-08 11:53	EPA 200.8	0.018	0.1	0.12	0.002	0.005	mg/L	106	0	70	130	0
10576060	766505_10576060	4084566LCS_10576060	4084566		LCS	INITIAL	ZnTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.097	0.002	0.005	mg/L	97	0	85	115	0
10576060	766505_10576060	4084565BLANK_10576060	4084565		MB	INITIAL	ZnTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10576060	766506_10576060	4084571BLANK_10576060	4084571		MB	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:55	EPA 200.8	0	0	0.0024	0.002	0.005	mg/L	0	0	0	0	0
10576060	766506_10576060	4084572LCS_10576060	4084572		LCS	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 07:58	EPA 200.8	0	0.1	0.099	0.002	0.005	mg/L	99	0	85	115	0
10576060	766506_10576060	SWWW0294-082121MS	4084573	SWWW0294-082121	MS	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:13	EPA 200.8	0.051	0.1	0.15	0.002	0.005	mg/L	98	0	70	130	0
10576060	766506_10576060	SWWW0294-082121MSD	4084574	SWWW0294-082121	MSD	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 08:16	EPA 200.8	0.051	0.1	0.15	0.002	0.005	mg/L	95	2	70	130	20
10576060	766506_10576060	SWWW0304-082121MS	4084575	SWWW0304-082121	MS	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 09:01	EPA 200.8	0.12	0.1	0.21	0.002	0.005	mg/L	92	0	70	130	0
10576060	766508_10576060	4084582LCS_10576060	4084582		LCS	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:52	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	102	0	85	115	0
10576060	766508_10576060	4084581BLANK_10576060	4084581		MB	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 01:49	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10576060	766508_10576060	SWWW0324-082121MS	4084585	SWWW0324-082121	MS	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:56	EPA 200.8	0.085	0.1	0.18	0.002	0.005	mg/L	94	0	70	130	0
10576060	766508_10576060	SWWW0314-082121MSD	4084584	SWWW0314-082121	MSD	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:10	EPA 200.8	0.08	0.1	0.18	0.002	0.005	mg/L	100	3	70	130	20
10576060	766508_10576060	SWWW0314-082121MS	4084583	SWWW0314-082121	MS	INITIAL	ZnTR	T	1	2021-08-30 02:24	EPA 200.8	2021-08-31 02:07	EPA 200.8	0.08	0.1	0.19	0.002	0.005	mg/L	106	0	70	130	0
10576060	768142_10576060	4093355LCS_10576060	4093355		LCS	INITIAL	ZnTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:29	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	106	0	85	115	0
10576060	768142_10576060	4093354BLANK_10576060	4093354		MB	INITIAL	ZnTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:26	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
10576060	768142_10576060	SWWW0293-082121MSD	4093357	SWWW0293-082121	MSD	INITIAL	ZnTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:47	EPA 200.8	0.026	0.1	0.13	0.002	0.005	mg/L	106	6	70	130	20
10576060	768142_10576060	SWWW0293-082121MS	4093356	SWWW0293-082121	MS	INITIAL	ZnTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-07 05:43	EPA 200.8	0.026	0.1	0.12	0.002	0.005	mg/L	98	0	70	130	0

Attachment A1
Normal Flow Analytical and Field Data Validation Checklists

DATA VALIDATION CHECKLIST FOR SDG 10545858

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Dissolved Hg,Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4); Chloride (Cl-); Flouride (F)
Sample Date(s):	1/21/2021		
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

DATA VALIDATION CHECKLIST FOR SDG 10545858

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Field Sample ID	**Lab Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWBF0001-012121	10545858001		FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002		FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	Leave this column blank in this worksheet.	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004		FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005		FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006		FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007		FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008		FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009		FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010		FG	SWBF0004-012121	SWBF0010

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Field Sample ID	**Lab Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWBF0001-012121	10545858001		FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002		FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003		FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004		FB	SWBF0004-012121	SWBF0004
SWBF0006-012121	10545858006		FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007		FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008		FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009		FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010		FG	SWBF0004-012121	SWBF0010

DATA VALIDATION SUMMARY FOR SDG

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	1/21/2021		
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0001-012121	10545858001	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	FG	SWBF0004-012121	SWBF0010

DATA VALIDATION SUMMARY FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	1/21/2021	1/29/2021
Total Hg	Aqueous	EPA 245.1	1/21/2021	1/28/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	1/21/2021	1/29/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	1/21/2021	1/28/2021, 2/1/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	1/21/2021	1/27/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	1/21/2021	1/28/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	1/21/2021	1/28/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	1/21/2021	1/28/2021
Ammonia (NH3)	Aqueous	EPA 350.1	1/21/2021	1/27/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	1/21/2021	2/8/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	1/21/2021	2/5/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	1/21/2021	2/4/2021
Sulfate (SO4)	Aqueous	ASTM D516	1/21/2021	1/26/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	212	28	
Percentage		79%	88%	12%	0%

Analyses of this sample set resulted in 240 natural sample data points. Of these, 212 (88%) had no quality control deficiencies and are defined as enforcement quality, while 28 (12%) had quality control deficiencies and are defined as screening quality. Of the 28 qualified data points, 3 were qualified for MS or MSD recoveries which did not meet acceptance criteria, 15 were qualified for FB detections, 5 were qualified for field precision, and 5 were qualified for both a FB detection and field precison. All anticipated data was collected, thus completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	1/21/2021	**Analysis Date(s):**	1/29/2021, 1/28/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWBF0001-012121	10545858001	722746	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	722746	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	722746	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	722746	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	722746	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	722746	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	722746	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	722746	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	722746	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	722746	FG	SWBF0004-012121	SWBF0010
Total Mercury					
SWBF0001-012121	10545858001	722205	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	722205	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	722205	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	722205	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	722205	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	722205	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	722205	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	722205	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	722205	FG	SWBF0004-012121	SWBF0009

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWBF0010-012121	10545858010	722205	FG	SWBF0004-012121	SWBF0010

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	1/21/2021	1/29/2021	No
Total Hg	Aqueous	EPA 245.1	1/21/2021	1/28/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	1/21/2021	**Analysis Date(s):**	1/29/2021, 1/28/2021, 2/1/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWBF0001-012121	10545858001	721906	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	721906	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	721906	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	721906	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	721906	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	721906	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	721906	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	721906	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	721906	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	721906	FG	SWBF0004-012121	SWBF0010
Total Metals					
SWBF0001-012121	10545858001	721909	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	721909	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	721909	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	721909	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	721909	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	721909	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	721909	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	721909	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	721909	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	721909	FG	SWBF0004-012121	SWBF0010

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	1/21/2021	1/29/2021	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	1/21/2021	1/28/2021, 2/1/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC Batch 721906** , MS 3850263 CaDis recovery >130%, MSD 3850264 CaDis and MgDis recoveries >130%. No associated CaDis or MgDis sample results were qualified because the parent sample concentrations were >4X the spike concentrations.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	1/21/2021	**Analysis Date(s):**	1/27/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0001-012121	10545858001	722461	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	722461	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	722461	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	722461	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	722461	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	722461	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	722461	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	722461	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	722461	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	722461	FG	SWBF0004-012121	SWBF0010

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	1/21/2021	1/27/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS AND TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	1/21/2021	**Analysis Date(s):**	1/28/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWBF0001-012121	10545858001	722565	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	722565	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	722565	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	722565	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	722565	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	722565	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	722567	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	722567	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	722567	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	722567	FG	SWBF0004-012121	SWBF0010

LABORATORY DATA VALIDATION CHECKLIST FOR TDS AND TSS

Total Suspended Solids (TSS)

SWBF0001-012121	10545858001	722569	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	722569	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	722569	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	722569	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	722569	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	722569	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	722569	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	722569	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	722569	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	722569	FG	SWBF0004-012121	SWBF0010

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	1/21/2021	1/28/2021	No
TSS	Aqueous	SM2540D	1/21/2021	1/28/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TDS AND TSS

3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y___ N_____ NA_X_
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	1/21/2021	**Analysis Date(s):**	1/27/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0001-012121	10545858001	722551	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	722551	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	722551	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	722551	FB	SWBF0004-012121	SWBF0004
SWBF0009-012121	10545858009	722552	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	722552	FG	SWBF0004-012121	SWBF0010

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	1/21/2021	1/27/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	1/21/2021	**Analysis Date(s):**	2/8/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0001-012121	10545858001	703007	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	703007	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	703007	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	703007	FB	SWBF0004-012121	SWBF0004
SWBF0009-012121	10545858009	703007	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	703007	FG	SWBF0004-012121	SWBF0010

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	1/21/2021	2/8/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If an MSD was analyzed, and if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y___ N_X_
If an MSD was analyzed, were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
QC Batch 703007, MS 2833903 & MSD 2833904 TKN recovery >110%. Associated TKN sample results were non-detect, thus were not qualified.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	1/21/2021	**Analysis Date(s):**	1/28/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0001-012121	10545858001	722636	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	722636	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	722636	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	722636	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	722636	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	722636	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	722636	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	722636	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	722636	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	722636	FG	SWBF0004-012121	SWBF0010

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	1/21/2021	1/28/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

***QC Batch 722636**, NO2+NO3 was detected in MB 3852889 at a concentration <1.5X MDL, thus was not further assessed per TREC DV Guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 722636**, MS 3852891 & MSD 3852892 recoveries <80%. The parent sample was not associated with the client submitted samples, thus matrix similarity could not be assessed. MS 3852893/MSD 3852894 recoveries were within criteria using a parent sample associated with this sample set, thus no associated NO2/NO3 results were qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	1/21/2021	**Analysis Date(s):**	2/5/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0001-012121	10545858001	702970	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	702970	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	702970	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	702970	FB	SWBF0004-012121	SWBF0004
SWBF0009-012121	10545858009	702970	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	702970	FG	SWBF0004-012121	SWBF0010

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	1/21/2021	2/5/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
4. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS)	
Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	1/21/2021	**Analysis Date(s):**	1/26/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0001-012121	10545858001	722097	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	722097	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	722097	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	722097	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	722097	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	722097	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	722097	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	722097	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	722097	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	722097	FG	SWBF0004-012121	SWBF0010

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	1/21/2021	1/26/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 722097** , MSD 3850776 SO4 recovery <80%. The parent sample used for this MSD, SWBF0008, was collected upstream of a point-source discharge and of a differing matrix than the downstream samples SWBF0001-SWBF0007. Sulfate results in upstream samples SWBF0008-SWBF0010 were > the MDL and qualified J-.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	1/21/2021	**Analysis Date(s):**	2/4/2021
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0001-012121	10545858001	723711	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	723711	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	723711	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	723711	FB	SWBF0004-012121	SWBF0004
SWBF0009-012121	10545858009	723711	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	723711	FG	SWBF0004-012121	SWBF0010

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	1/21/2021	2/4/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10545858
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	1/21/2021		
Data Validator:	Michele Bay	**Validation Date:**	3/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0001-012121	10545858001	FG	SWBF0004-012121	SWBF0001
SWBF0002-012121	10545858002	FG-N	SWBF0004-012121	SWBF0002
SWBF0003-012121	10545858003	FG-D	SWBF0004-012121	SWBF0003
SWBF0004-012121	10545858004	FB	SWBF0004-012121	SWBF0004
SWBF0005-012121	10545858005	FG	SWBF0004-012121	SWBF0005
SWBF0006-012121	10545858006	FG	SWBF0004-012121	SWBF0006
SWBF0007-012121	10545858007	FG	SWBF0004-012121	SWBF0007
SWBF0008-012121	10545858008	FG	SWBF0004-012121	SWBF0008
SWBF0009-012121	10545858009	FG	SWBF0004-012121	SWBF0009
SWBF0010-012121	10545858010	FG	SWBF0004-012121	SWBF0010

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	1/21/2021	1/29/2021
Total Hg	Aqueous	EPA 245.1	1/21/2021	1/28/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	1/21/2021	1/29/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	1/21/2021	1/28/2021, 2/1/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	1/21/2021	1/27/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	1/21/2021	1/28/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	1/21/2021	1/28/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	1/21/2021	1/28/2021
Ammonia (NH3)	Aqueous	EPA 350.1	1/21/2021	1/27/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	1/21/2021	2/8/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	1/21/2021	2/5/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	1/21/2021	2/4/2021
Sulfate (SO4)	Aqueous	ASTM D516	1/21/2021	1/26/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

CaDis was detected in FB SWBF0004 at a concentration >1.5X MDL. Associated CaDis results were >10X the FB value, thus were not qualified.

CuDis was detected in FB SWBF0004 at a concentration >1.5X MDL. Associated CuDis results in SWBF0001-SWBF0003, SWBF0005-SWBF0007, and SWBF0009 were >RL, but ≤10X FB value and qualifed J+. CuDis results in SWBF0008 and SWBF0010 were ≥MDL, but ≤RL and qualified UJ.

DOC was detected in FB SWBF0004 at a concentration >1.5X MDL. Associated DOC results in SWBF0001-SWBF0003, SWBF0009, and SWBF0010 were >RL but, ≤10X FB value and qualifed J+.

Hardness was detected in FB SWBF0004 at a concentration >1.5X MDL. Associated hardness results were >10X the FB value, thus were not qualified.

PbTR was detected in FB SWBF0004 at a concentration >1.5X MDL. Associated PbTR results in SWBF0001-SWBF0003 and SWBF0005-SWBF0010 were >RL but ≤10X FB value thus, were qualified J+.

MgDis and MoDis were detected in FB SWBF0004 at concentrations <1.5X MDL, thus were not further assessed per TREC DV Guidelines.

DATA VALIDATION CHECKLIST FOR SDG 10550036

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4); Chloride (Cl-); Flouride (F)
Sample Date(s):	2/22/2021	**Analysis Date(s):**	
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

DATA VALIDATION CHECKLIST FOR SDG 10550036

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Field Sample ID	**Lab Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWBF0011-022221	10550036001		FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002		FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	Leave this column blank in this worksheet.	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004		FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005		FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006		FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007		FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008		FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009		FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010		FG	SWBF0014-022221	SWBF0020

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Field Sample ID	**Lab Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWBF0011-022221	10550036001		FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002		FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003		FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004		FB	SWBF0014-022221	SWBF0014
SWBF0016-022221	10550036006		FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007		FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008		FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009		FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010		FG	SWBF0014-022221	SWBF0020

DATA VALIDATION SUMMARY FOR SDG

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	2/22/2021		
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0011-022221	10550036001	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005	FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006	FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007	FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008	FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	FG	SWBF0014-022221	SWBF0020

DATA VALIDATION SUMMARY FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	2/22/2021	3/18/2021
Total Hg	Aqueous	EPA 245.1	2/22/2021	3/18/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	2/22/2021	3/22/2021, 3/24/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	2/22/2021	3/16/2021, 3/17/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	2/22/2021	3/8/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	2/22/2021	Not Analyzed
Total Suspended Solids (TSS)	Aqueous	SM2540D	2/22/2021	Not Analyzed
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	2/22/2021	3/8/2021, 3/15/2021
Ammonia (NH3)	Aqueous	EPA 350.1	2/22/2021	3/10/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	2/22/2021	3/17/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	2/22/2021	3/18/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	2/22/2021	3/14/2021
Sulfate (SO4)	Aqueous	ASTM D516	2/22/2021	3/11/2021
Were Level A field documentation and QA/QC practices met for this data set?				Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?				Y_X_ N___

DATA VALIDATION SUMMARY FOR SDG

Summary					
	Data Points	**Natural Data Points**	**Enforcement Quality (E)**	**Screening Level (S)**	**Unusable (R)**
Total	284	224	178	46	
Percentage		79%	79%	21%	0%

Analyses of this sample set resulted in 224 natural sample data points. Of these, 178 (79%) had no quality control deficiencies and are defined as enforcement quality, while 46 (21%) had quality control deficiencies and are defined as screening quality. The majority of screening quality data points were qualified because temperature criteria was not met. One cooler of samples arrived at Pace Minnesota within two days of shipment and was within temperature limits. Extreme winter weather caused nation-wide shipping delays and the second cooler did not arrive at the Minnesota lab until March 5, 2021, and the cooler temperature was > 6°C. The samples were not checked in until the second cooler arrived, and the laboratory did not record which bottles were out of temperture; thus , all analyses with temperature requirements were qualified for improper temperature preservation. Thirty-three results were qualified for improper temperature preservation, 2 results were qualified for temperature, MS/MSD recoveries, and laboratory precision which were not within acceptance criteria, 1 result was qualified for temperature and MS/MSD recoveries which did not meet criteria, 4 results were qualified for temperature and a MB detection, 4 results were qualified for field precision which did not meet acceptance criteria, 1 result was qualified for both field precision and a field blank detection, and 1 result was qualified for a field blank detection alone.

When the samples were checked in at the Minnesota laboratory on March 5, it had been 14 days since sample collection. Had TDS and TSS been analyzed, the results would have been rejected because they were past 2X the holding time limit. Therefore, the decision was made to cancel the gravimetric analyses. Of the 240 intended natural sample analyses, 224 were completed, hence project completeness is 93%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	2/22/2021	**Analysis Date(s):**	3/18/2021
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0011-022221	10550036001	729771	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	729771	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	729771	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	729771	FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005	729771	FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006	729771	FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007	729771	FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008	729771	FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009	729771	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	729771	FG	SWBF0014-022221	SWBF0020
Total Mercury					
SWBF0011-022221	10550036001	728834	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	728834	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	728834	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	728834	FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005	728834	FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006	728834	FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007	728834	FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008	728834	FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009	728834	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	728834	FG	SWBF0014-022221	SWBF0020

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	2/22/2021	3/18/2021	No
Total Hg	Aqueous	EPA 245.1	2/22/2021	3/18/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**Case Number:**	10550036	
Matrix:	Aqueous		**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	
Sample Date(s):	2/22/2021		**Analysis Date(s):**	3/22/2021, 3/24/2021, 3/16/2021, 3/17/2021	
Data Validator:	Michele Bay		**Validation Date:**	4/8/2021	
		Sample Delivery Group			
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWBF0011-022221	10550036001	730493	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	730493	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	730493	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	730869	FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005	730493	FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006	730493	FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007	730493	FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008	730493	FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009	730493	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	730493	FG	SWBF0014-022221	SWBF0020
Total Metals					
SWBF0011-022221	10550036001	728302	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	728302	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	728302	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	728302	FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005	728302	FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006	728302	FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007	728302	FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008	728302	FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009	728302	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	728302	FG	SWBF0014-022221	SWBF0020

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	2/22/2021	3/22/2021, 3/24/2021	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	2/22/2021	3/16/2021, 3/17/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___
Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS problems.

***QC Batch 730493** , MS 3893411 MSD 3893412 CaDis recovery <70%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentration.*

***QC batch 730869** , an MS/MSD was not analyzed. An LCSD was analyzed satisfying the laboratory duplicate requirement. The only sample in this QC batch was the FB, and matrix interference is not applicable to FB samples since they are made up of DI water.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	2/22/2021	**Analysis Date(s):**	3/8/2021
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0011-022221	10550036001	728178	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	728178	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	728178	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	728178	FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005	728178	FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006	728178	FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007	728178	FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008	728178	FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009	728178	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	728178	FG	SWBF0014-022221	SWBF0020

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	2/22/2021	3/8/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y_X_ N___

***QC Batch 728178** ; As indicated by the COC and SCUR laboratory documentation one cooler of samples was out of temperature upon arrival. The laboratory did not document which bottles were received out of temperature, thus all analyses with temperature requirements were qualified for improper temperature preservation. Alkalinity results for SWBF0011-SWBF0013 and SWBF0015-SWBF0020 were >MDL and qualified J-. The alkalinity result for SWBF0014 (the FB) was < the MDL and qualified UJ.*

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	2/22/2021	**Analysis Date(s):**	Not Analyzed
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0011-022221	10550036001		FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002		FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003		FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004		FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005		FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006		FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007		FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008		FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009		FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010		FG	SWBF0014-022221	SWBF0020
Total Suspended Solids (TSS)					
SWBF0011-022221	10550036001		FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002		FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003		FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004		FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005		FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006		FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007		FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008		FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009		FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010		FG	SWBF0014-022221	SWBF0020

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	2/22/2021	Not Analyzed	No
TSS	Aqueous	SM2540D	2/22/2021	Not Analyzed	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y___ N___

Were MB results non-detects? Y___ N___

Were any data flagged because of blank problems? Y___ N___

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y___ N___

Was LCS within control window of 80-120% recovery? Y___ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N___

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y___ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N___

Were any data flagged because of LDS problems? Y___ N___

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

No TDS or TSS analysis was performed due to sample cooler shipment delay because of snow storm transit issues resulting with TDS and TSS arriving beyond the required hold time.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	2/22/2021	**Analysis Date(s):**	3/10/2021
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0011-022221	10550036001	728719	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	728719	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	728719	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	728719	FB	SWBF0014-022221	SWBF0014
SWBF0019-022221	10550036009	728719	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	728719	FG	SWBF0014-022221	SWBF0020

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	2/22/2021	3/10/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

QC Batch 728719 *; As indicated by the COC and SCUR laboratory documentation, one cooler of samples was out of temperature upon arrival. The laboratory did not document which bottles were received out of temperature, thus all analyses with temperature requirements were qualified for improper temperature preservation. NH3 results for SWBF0011-SWBF0013 and SWBF0020 were ≥MDL and qualified J-. NH3 results for SWBF0014 and SWBF0019 were non-detect and qualified UJ.*

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	2/22/2021	**Analysis Date(s):**	3/17/2021
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0011-022221	10550036001	708790	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	708790	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	708790	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	708790	FB	SWBF0014-022221	SWBF0014
SWBF0019-022221	10550036009	708790	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	708790	FG	SWBF0014-022221	SWBF0020

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	2/22/2021	3/17/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_

Describe corrective actions taken because of LDS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
	Y___ N_X_

If an MSD was analyzed, andf if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?

Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y_X_ N___
If an MSD was analyzed, were any data flagged because of MS/MSD RPD problems?	Y_X_ N___

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 708790*, MSD 2854456 recovery <90%. Associated TKN sample results SWBF0011-SWBF0013 were non-detect and qualified UJ. The MS/MSD parent sample was of a different matrix than samples SWBF0019 and SWBF0020 (and the FB SWBF0014) thus, TKN results in those samples were not qualified based on MSD recovery criteria.*

QC Batch 708790*, although a laboratory duplicate sample was analyzed, an MSD was also analyzed. The RPD between the MS and MSD was > 10%. TKN results were qualified as indicated above and an RPD (laboratory precision) validation code was added.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

QC Batch 708790*; As indicated by the COC and SCUR laboratory documentation, one cooler of samples was out of temperature upon arrival at Pace Minnesota. The laboratory did not document which bottles were received out of temperature, thus all analyses with temperature requirements were qualified for improper temperature preservation. TKN results in SWBF0011-SWBF0014, SWBF0019, and SWBF0020 were non-detect and qualifed UJ.*

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	2/22/2021	**Analysis Date(s):**	3/8/2021, 3/15/2021
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0011-022221	10550036001	728185	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	729448	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	729448	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	729448	FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005	729448	FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006	729448	FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007	729448	FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008	729448	FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009	729448	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	729448	FG	SWBF0014-022221	SWBF0020

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	2/22/2021	3/8/2021, 3/15/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 728185** , MS 3881631 MSD 3881632 and MS 3881633 MSD 3881634 recoveries <80%. The parent samples used for the MS/MSDs were not project related, so matrix similarity cannot be assessed. Since the parent samples were not project related, no NO2/NO3 results were qualified based on MS/MSD recovery criteria.*

***QC Batch 729448** , MS 3888071 MSD 3888072 and MS 3888073 MSD 3888074 recoveries <80%. The parent samples used for the MS/MSDs were not project related, so matrix similarity cannot be assessed. Since the parent samples were not project related, no NO2/NO3 results were qualified based on MS/MSD recovery criteria.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

***QC Batches 728185 and 729448** ; As indicated by the COC and SCUR laboratory documentation, one cooler of samples was out of temperature upon arrival. The laboratory did not document which bottles were received out of temperature, thus all analyses with temperature requirements were qualified for improper temperature preservation. NO2+NO3 results SWBF0011-SWBF0013 and SWBF0015-SWBF0020 were ≥MDL and qualified J-. The NO2+NO3 result for SWBF0014 was < the MDL and qualified UJ.*

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	2/22/2021	**Analysis Date(s):**	3/18/2021
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0011-022221	10550036001	163561	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	163561	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	163561	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	163561	FB	SWBF0014-022221	SWBF0014
SWBF0019-022221	10550036009	163561	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	163561	FG	SWBF0014-022221	SWBF0020

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	2/22/2021	3/18/2021	No

Describe corrective actions taken because of holding time problems.

0

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y_X_ N___

Describe corrective actions taken because of blank problems.

QC Batch 1635617*, DOC was detected in MB R3632647-1 at a concentration >1.5X the MDL. Sample results SWBF0011-SWBF0013, SWBF0019, and SWBF020 were* >RL, but ≤ *the MB value and qualified J+. The DOC result for SWBF0014 was < 10X the MB value and < the RL and qualified UJ.*

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

4. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	

4. Matrix Spike (MS)

Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

QC Batch 1635617 *; As indicated by the COC and SCUR laboratory documentation, one cooler of samples was out of temperature upon arrival at Pace Minnesota. The laboratory did not document which bottles were received out of temperature, thus all analyses with temperature requirements were qualified for improper temperature preservation. DOC results in SWBF0011-SWBF0013, SWBF0019, and SWBF0020 were ≥MDL and qualified J-. These results were also qualified J+ for not meeting method blank criteria thus, the qualifier for SWBF0011-SWBF0013, SWBF0019, and SWBF0020 is J. The DOC result for SWBF0014 was < the RL and received a UJ qualifier because of the MB detection.*

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	2/22/2021	**Analysis Date(s):**	3/11/2021
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0011-022221	10550036001	728957	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	728959	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	728959	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	728959	FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005	728959	FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006	728959	FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007	728959	FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008	728959	FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009	728959	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	728959	FG	SWBF0014-022221	SWBF0020

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	2/22/2021	3/11/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 728957** , MS 3885137 MSD 3885138 SO4 recoveries >120%. Associated SO4 result in sample SWBF0011 was ≥MDL and qualified J+.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

***QC Batch 728957 and 728959** ; As indicated by the COC and SCUR laboratory documentation, one cooler of samples was out of temperature upon arrival at Pace Minnesota. The laboratory did not document which bottles were received out of temperature, thus all analyses with temperature requirements were qualified for improper temperature preservation. Sulfate results in results SWBF0011-SWBF0013 and SWBF0015-SWBF0020 were ≥MDL and qualified J-. The sulfate result in SWBF0014 was < the MDL and qualified UJ. The sulfate result in SWBF0011 was qualified J+ for an MS recovery above criteria, thus an overall qualifier of J was applied to this result.*

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	2/22/2021	**Analysis Date(s):**	3/14/2021
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0011-022221	10550036001	729344	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	729344	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	729344	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	729344	FB	SWBF0014-022221	SWBF0014
SWBF0019-022221	10550036009	729344	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	729344	FG	SWBF0014-022221	SWBF0020

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	2/22/2021	3/14/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

3. Laboratory Control Sample (LCS)

Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

QC Batch 729344 *; As indicated by the COC and SCUR laboratory documentation, one cooler of samples was out of temperature upon arrival at Pace Minnesota. The laboratory did not document which bottles were received out of temperature, thus all analyses with temperature requirements were qualified for improper temperature preservation. Phosphate results SWBF0011-SWBF0013, SWBF0019, and SWBF0020 were ≥MDL and qualified J-. The phosphate result for SWBF0014 was < the MDL and qualified UJ.*

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10550036
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	2/22/2021		
Data Validator:	Michele Bay	**Validation Date:**	4/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0011-022221	10550036001	FG	SWBF0014-022221	SWBF0011
SWBF0012-022221	10550036002	FG-N	SWBF0014-022221	SWBF0012
SWBF0013-022221	10550036003	FG-D	SWBF0014-022221	SWBF0013
SWBF0014-022221	10550036004	FB	SWBF0014-022221	SWBF0014
SWBF0015-022221	10550036005	FG	SWBF0014-022221	SWBF0015
SWBF0016-022221	10550036006	FG	SWBF0014-022221	SWBF0016
SWBF0017-022221	10550036007	FG	SWBF0014-022221	SWBF0017
SWBF0018-022221	10550036008	FG	SWBF0014-022221	SWBF0018
SWBF0019-022221	10550036009	FG	SWBF0014-022221	SWBF0019
SWBF0020-022221	10550036010	FG	SWBF0014-022221	SWBF0020

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	2/22/2021	3/18/2021
Total Hg	Aqueous	EPA 245.1	2/22/2021	3/18/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	2/22/2021	3/22/2021, 3/24/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	2/22/2021	3/16/2021, 3/17/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	2/22/2021	3/8/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	2/22/2021	Not Analyzed
Total Suspended Solids (TSS)	Aqueous	SM2540D	2/22/2021	Not Analyzed
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	2/22/2021	3/8/2021, 3/15/2021
Ammonia (NH3)	Aqueous	EPA 350.1	2/22/2021	3/10/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	2/22/2021	3/17/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	2/22/2021	3/18/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	2/22/2021	3/14/2021
Sulfate (SO4)	Aqueous	ASTM D516	2/22/2021	3/11/2021
Field QC Samples				

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

CaDis, Hardness, and MoDis were detected in FB SWBF0014 at a concentration >1.5X MDL. Associated CaDis, Hardness, and MoDis results were >10X the FB value thus, were not qualified.

DOC was detected in FB SWBF0014 at a concentration >1.5X MDL. Associated DOC sample results SWBF0011-SWBF0013, SWBF0019, and SWBF0020 were >RL, but ≤10X FB value and qualified J+. The DOC FB concentration was 0.363 mg/L and the MB concentration was 0.369 mg/L. Since the MB result was higher than the FB result, only a MB code was associated with the DOC qualifiers. DOC results were also qualified for arriving at the Minnesota lab out of temperature (J-), so the overall qualifier is J.

PbTR was detected in FB SWBF0014 at a concentration >1.5X MDL. Associated PbTR results in SWBF0017 and SWBF0019 were >RL but, ≤10X FB value and were qualified J+. All other PbTR results were ≥ 10X FB value.

AgDis, AlTR, HgTR, and MgDis were detected in FB SWBF0014 at concentrations <1.5X MDL thus, were not further assessed per TREC DV Guidelines.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Duplicate set SWBF0012/SWBF0013 RPD>20% for CdDis, HgDis, and NH3. No associated CdDis, HgDis, or NH3 sample results were qualified because the primary and duplicate results were <5X RL and the absolute difference between primary and duplicate sample results were <RL.

Duplicate set SWBF0012/SWBF0013 PbTR RPD>20% and both primary and duplicate results were >5X RL. The field duplicate set was collected downstream of point-source discharge, as were SWBF0011-SWBF0013 and SWBF0015-SWBF0017. Thus, these samples are of a similar matrix and PbTR results in these samples were qualified J. The PbTR result in SWBF0017 was also qualified for a FB detection, which resulted in an overall J+ qualifier. FBs are not assessed for field precision since they are of a differing matrix than the samples used for the duplicate set.

Additional Comments

DATA VALIDATION SUMMARY FOR SDG 10551370

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg;Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4); Chloride (Cl-); Flouride (F)
Sample Date(s):	3/16/2021	**Analysis Date(s):**	
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

DATA VALIDATION SUMMARY FOR SDG 10551370

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Field Sample ID	**Lab Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWBF0021-031621	10551370001		FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002		FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	Leave this column blank in this worksheet.	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004		FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005		FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006		FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007		FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008		FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009		FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010		FB	SWBF0030-031621	SWBF0030

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Field Sample ID	**Lab Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWBF0021-031621	10551370001		FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002		FG	SWBF0030-031621	SWBF0022
SWBF0024-031621	10551370004		FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005		FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006		FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007		FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008		FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009		FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010		FB	SWBF0030-031621	SWBF0030

DATA VALIDATION SUMMARY FOR SDG

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	3/16/2021		
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0021-031621	10551370001	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	FB	SWBF0030-031621	SWBF0030

DATA VALIDATION SUMMARY FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	3/16/2021	3/24/2021
Total Hg	Aqueous	EPA 245.1	3/16/2021	3/23/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn	Aqueous	EPA 200.8	3/16/2021	3/29/31
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	3/16/2021	3/30/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	3/16/2021	3/23/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	3/16/2021	3/23/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	3/16/2021	3/23/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	3/16/2021	3/29/2021
Ammonia (NH3)	Aqueous	EPA 350.1	3/16/2021	3/21/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	3/16/2021	3/26/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	3/16/2021	3/23/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	3/16/2021	3/23/2021
Sulfate (SO4)	Aqueous	ASTM D516	3/16/2021	3/24/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	223	17	0
Percentage		79%	93%	7%	0%

Analyses of this data set resulted in 240 natural data points. Of these, 223 (93%) had no quality control deficiencies and are defined as enforcement quality, while 17 (7%) had quality control deficiencies and are defined as screening quality. Of the 17 qualified data points; 2 were coded MS due to laboratory accuracy criteria not being met; 5 were coded RPD due to laboratory precision criteria not being met; 7 were coded FB due to field accuracy criteria not being met; and 3 were coded FD due to field precision criteria not being met; and . All anticipated data was collected, thus completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	3/16/2021	**Analysis Date(s):**	3/24/2021, 3/23/2021
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0021-031621	10551370001	730852	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	730852	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	730852	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	730852	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	730852	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	730852	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	730852	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	730852	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	730852	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	730852	FB	SWBF0030-031621	SWBF0030
Total Mercury					
SWBF0021-031621	10551370001	730672	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	730672	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	730672	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	730672	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	730672	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	730672	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	730672	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	730672	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	730672	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	730672	FB	SWBF0030-031621	SWBF0030

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	3/16/2021	3/24/2021	No
Total Hg	Aqueous	EPA 245.1	3/16/2021	3/23/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	3/16/2021	**Analysis Date(s):**	3/29/31, 3/30/2021
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWBF0021-031621	10551370001	730311	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	730311	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	730311	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	730311	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	730311	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	730311	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	730311	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	730311	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	730311	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	730311	FB	SWBF0030-031621	SWBF0030
Total Metals					
SWBF0021-031621	10551370001	730313	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	730313	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	730313	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	730313	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	730313	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	730313	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	730313	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	730313	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	730313	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	730313	FB	SWBF0030-031621	SWBF0030

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn	Aqueous	EPA 200.8	3/16/2021	3/29/31	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	3/16/2021	3/30/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___
Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS problems.
***QC Batch 730311** , MS 3892273 CaDis recovery >130%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentration.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	3/16/2021	**Analysis Date(s):**	3/23/2021
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0021-031621	10551370001	730771	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	730771	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	730771	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	730771	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	730771	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	730771	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	730771	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	730771	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	730771	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	730771	FB	SWBF0030-031621	SWBF0030

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	3/16/2021	3/23/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)					
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**Case Number:**	10551370	
Matrix:	Aqueous		**Analysis:**	Total Dissolved Solids and Total Suspended Solids	
Sample Date(s):	3/16/2021		**Analysis Date(s):**	3/23/2021, 3/23/2021	
Data Validator:	Michele Bay		**Validation Date:**	5/5/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0021-031621	10551370001	730926	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	730926	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	730926	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	730926	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	730926	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	730926	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	730926	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	730928	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	730928	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	730928	FB	SWBF0030-031621	SWBF0030
Total Suspended Solids (TSS)					
SWBF0021-031621	10551370001	730929	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	730929	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	730929	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	730929	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	730929	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	730929	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	730929	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	730929	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	730929	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	730930	FB	SWBF0030-031621	SWBF0030

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	3/16/2021	3/23/2021	No
TSS	Aqueous	SM2540D	3/16/2021	3/23/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y_X_ N___

Describe corrective actions taken because of LDS problems.

***QC Batch 730926** , LDS 3895332 TDS RPD>10% and both primary and duplicate sample results >5X RL. The parent sample used for this LDS was collected downstream of a point source discharge and the upstream sample matrix is dissimilar to the downstream sample matrix. TDS results in samples SWBF0021 - SWBF0025 were ≥MDL and qualified J. LDS 3895331 RPD>10% and both primary and duplicate sample results >5X RL. The parent sample used for this LDS was not project associated, so matrix similarity could not be determined. No TDS results were qualified due to LDS 3895331 RPD.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	3/16/2021	**Analysis Date(s):**	3/21/2021
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0021-031621	10551370001	730495	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	730495	FG	SWBF0030-031621	SWBF0022
SWBF0027-031621	10551370007	730496	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	730496	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	730496	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	730496	FB	SWBF0030-031621	SWBF0030

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	3/16/2021	3/21/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 730496, MS 3893426 recovery <90%. The parent sample used for this MS was not project associated, so matrix similarity could not be determined. No NH3 results were qualified due to MS 3893426 recovery.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	3/16/2021	**Analysis Date(s):**	3/26/2021
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0021-031621	10551370001	710709	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	710709	FG	SWBF0030-031621	SWBF0022
SWBF0027-031621	10551370007	710709	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	710709	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	710709	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	710709	FB	SWBF0030-031621	SWBF0030

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	3/16/2021	3/26/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If an MSD was used for the laboratory duplicate sample, anf if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y___ N_X_
If an MSD was used for the laboratory duplicate sample, were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	3/16/2021	**Analysis Date(s):**	3/29/2021
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0021-031621	10551370001	731719	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	731719	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	731719	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	731719	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	731719	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	731719	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	731719	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	731719	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	731719	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	731719	FB	SWBF0030-031621	SWBF0030

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	3/16/2021	3/29/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	3/16/2021	**Analysis Date(s):**	3/23/2021
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0021-031621	10551370001	710002	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	710002	FG	SWBF0030-031621	SWBF0022
SWBF0027-031621	10551370007	710002	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	710002	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	710002	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	710002	FB	SWBF0030-031621	SWBF0030

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	3/16/2021	3/23/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 710002, DOC was detected in MB 2858625 at a concentration <1.5X MDL, thus was not further assessed per TREC DV Guidelines.

4. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_

Describe corrective actions taken because of LDS problems.

4. Matrix Spike (MS)

Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_

Describe corrective actions taken because of MS recovery problems.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	3/16/2021	**Analysis Date(s):**	3/24/2021
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0021-031621	10551370001	731045	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	731045	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	731045	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	731045	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	731045	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	731045	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	731045	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	731045	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	731045	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	731045	FB	SWBF0030-031621	SWBF0030

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	3/16/2021	3/24/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 731045** , MS 3895825 MSD 3895826 and MS 3895827 MSD 3895828 recoveries <80%. No associated SO4 sample results were qualified based on MS recovery criteria because the parent sample concentrations were >4X the spike concentrations.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	3/16/2021	**Analysis Date(s):**	3/23/2021
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0021-031621	10551370001	730689	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	730689	FG	SWBF0030-031621	SWBF0022
SWBF0027-031621	10551370007	730689	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	730689	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	730689	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	730689	FB	SWBF0030-031621	SWBF0030

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	3/16/2021	3/23/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 730689** , MS 3894040 MSD 3894041 recoveries <80%. Associated total phosphorus results in SWBF0021 and SWBF0022 were ≥MDL and qualified J-. The parent sample used for the MS/MSD was collected downstream of a point-source discharge and of a different matrix than upstream samples. Thus total phosphorus results in SWBF0027-SWBF0029 and SWBF0030 (the FB) were not qualified. MS 3894042, MSD 3894043 also had <80% recoveries, but the parent sample used for this MS/MSD was not project associated. Since matrix similarity could not be determined, no data were qualified based on this MS/MSD recovery.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10551370
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	3/16/2021		
Data Validator:	Michele Bay	**Validation Date:**	5/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0021-031621	10551370001	FG	SWBF0030-031621	SWBF0021
SWBF0022-031621	10551370002	FG	SWBF0030-031621	SWBF0022
SWBF0023-031621	10551370003	FG	SWBF0030-031621	SWBF0023
SWBF0024-031621	10551370004	FG	SWBF0030-031621	SWBF0024
SWBF0025-031621	10551370005	FG	SWBF0030-031621	SWBF0025
SWBF0026-031621	10551370006	FG	SWBF0030-031621	SWBF0026
SWBF0027-031621	10551370007	FG	SWBF0030-031621	SWBF0027
SWBF0028-031621	10551370008	FG-N	SWBF0030-031621	SWBF0028
SWBF0029-031621	10551370009	FG-D	SWBF0030-031621	SWBF0029
SWBF0030-031621	10551370010	FB	SWBF0030-031621	SWBF0030

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	3/16/2021	3/24/2021
Total Hg	Aqueous	EPA 245.1	3/16/2021	3/23/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn	Aqueous	EPA 200.8	3/16/2021	3/29/31
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	3/16/2021	3/30/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	3/16/2021	3/23/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	3/16/2021	3/23/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	3/16/2021	3/23/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	3/16/2021	3/29/2021
Ammonia (NH3)	Aqueous	EPA 350.1	3/16/2021	3/21/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	3/16/2021	3/26/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	3/16/2021	3/23/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	3/16/2021	3/23/2021
Sulfate (SO4)	Aqueous	ASTM D516	3/16/2021	3/24/2021

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

DOC was detected in FB SWBF0030 at a concentration >1.5X MDL. Associated DOC sample results SWBF0021, SWBF0022, and SWBF0027 - SWBF0029 were >RL, but <10X the FB value and were qualified J+.

PbTR was detected in FB SWBF0030 at a concentration >1.5X MDL. Associated PbTR sample results SWBF0021 - SWBF0024 and SWBF0026 were ≥10X the FB value and were not qualified. Sample results SWBF0025, and SWBF0027 - SWBF0029 were >RL, but <10X the FB value and were qualified J+.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Duplicate set SWBF0028/SWBF0029 for CdTR, HgDis, and TKN had RPDs>20%, but the primary and duplicate CdTR, HgDis, and TKN sample results were <5X RL and the absolute difference between primary and duplicate samples was <RL, thus no CdTR, HgDis, or TKN sample results were qualified.

Duplicate set SWBF0028/SWBF0029 for HgTR had RPD>20%, the primary sample result was >5X RL and the duplicate result was < the MDL. The absolute difference between primary and duplicate sample results was >RL. The duplicate sample set was collected upstream of a point source discharge and the matrix downstream of the discharge differs from the upstream matrix. HgTR in sample results SWBF0026 and SWBF0028 were ≥MDL and qualified J. Sample results SWBF0027 and SWBF0029 were non-detect and qualified UJ. Field blanks are not assessed for duplicate precision since they are of a differing matrix.

Additional Comments

DATA VALIDATION SUMMARY FOR SDG 10555588

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as $CaCO_3$; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO_2/NO_3); Ammonia (NH_3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO_4); Chloride (Cl^-); Flouride (F)
Sample Date(s):	4/13/2021	**Analysis Date(s):**	

DATA VALIDATION SUMMARY FOR SDG 10555588

Data Validator:	Nadia Reed		Validation Date:	5/17/2021	
Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Field Sample ID	**Lab Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWBF0031-041321	10555588001		FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002		FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	Leave this column blank in this worksheet.	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004		FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005		FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006		FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007		FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008		FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009		FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010		FG	SWBF0034-041330	SWBF0040
Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Field Sample ID	**Lab Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWBF0031-041321	10555588001		FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002		FG-N	SWBF0034-041321	SWBF0032
SWBF0033-041321	10555588003		FG-D	SWBF0034-041321	SWBF0033
SWBF0034-041321	10555588004		FB	SWBF0034-041321	SWBF0034
SWBF0036-041321	10555588006		FG	SWBF0034-041321	SWBF0036
SWBF0037-041321	10555588007		FG	SWBF0034-041321	SWBF0037
SWBF0038-041321	10555588008		FG	SWBF0034-041321	SWBF0038
SWBF0039-041321	10555588009		FG	SWBF0034-041321	SWBF0039
SWBF0040-041321	10555588010		FG	SWBF0034-041321	SWBF0040

DATA VALIDATION SUMMARY FOR SDG

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	4/13/2021		
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0031-041321	10555588001	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	FG	SWBF0034-041330	SWBF0040

DATA VALIDATION SUMMARY FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	4/13/2021	4/20/2021
Total Hg	Aqueous	EPA 245.1	4/13/2021	4/20/2021, 4/26/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	4/13/2021	4/28/2021, 4/29/2021, 5/04/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	4/13/2021	4/28/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	4/13/2021	4/21/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	4/13/2021	4/20/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	4/13/2021	4/20/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	4/13/2021	4/28/2021
Ammonia (NH3)	Aqueous	EPA 350.1	4/13/2021	4/18/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	4/13/2021	4/27/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	4/13/2021	4/20/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	4/13/2021	4/25/2021
Sulfate (SO4)	Aqueous	ASTM D516	4/13/2021	4/29/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X _ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_ X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	215	25	0
Percentage		79%	90%	10%	0%

Analyses of this sample set resulted in 240 natural sample data points. Of these, 215 (90%) had no quality control deficiencies and are defined as enforcement quality, while 25 (10%) had quality control deficiencies and are defined as screening quality. Of the 25 qualified data points, 8 were qualified for FB detections alone, 2 were qualified for both MS recoveries and field precision, and 15 were qualified for field precison alone. All anticipated data was collected, thus completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/20/2021, 4/20/2021, 4/26/2021
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWBF0031-041321	10555588001	735974	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	735974	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	735974	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	735974	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	735974	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	735974	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	735974	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	735974	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	735974	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	735974	FG	SWBF0034-041330	SWBF0040
Total Mercury					
SWBF0031-041321	10555588001	735975	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	735975	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	735975	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	737104	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	735975	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	735975	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	735975	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	735975	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	735975	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	735975	FG	SWBF0034-041330	SWBF0040

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	4/13/2021	4/20/2021	No
Total Hg	Aqueous	EPA 245.1	4/13/2021	4/20/2021, 4/26/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 737104** , MS was not performed but the only sample in this batch was the FB which is not assessed for matrix interference. LCSD satisfied the duplicate requirement.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/28/2021, 4/29/2021, 5/04/2021, 44314
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWBF0031-041321	10555588001	736051	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	736051	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	736051	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	739077	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	736051	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	736051	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	736051	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	736051	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	736051	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	736051	FG	SWBF0034-041330	SWBF0040
Total Metals					
SWBF0031-041321	10555588001	736052	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	736052	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	736052	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	736052	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	736052	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	736052	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	736052	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	736052	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	736052	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	736052	FG	SWBF0034-041330	SWBF0040

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	4/13/2021	4/28/2021, 4/29/2021, 5/04/2021	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	4/13/2021	4/28/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 736051, CaDis was detected in MB 3924325 >1.5X MDL. Associated CaDis sample results were >10X the MB concentration, thus were not qualified.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 736051, MS 3924327 MSD 3924328 CaDis >130%. MS 3924327 MgDis, MoDis recoveries > 130%. No associated CaDis, MgDis, MoDis results were qualified because the parent sample concentrationswere >4X the spike concentrations.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/21/2021
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0031-041321	10555588001	736354	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	736354	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	736354	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	736354	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	736354	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	736354	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	736354	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	736354	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	736354	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	736354	FG	SWBF0034-041330	SWBF0040

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	4/13/2021	4/21/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/20/2021, 4/20/2021
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0031-041321	10555588001	736182	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	736182	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	736182	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	736182	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	736182	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	736182	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	736182	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	736184	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	736184	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	736184	FG	SWBF0034-041330	SWBF0040
Total Suspended Solids (TSS)					
SWBF0031-041321	10555588001	736185	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	736185	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	736185	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	736185	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	736185	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	736185	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	736185	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	736185	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	736185	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	736185	FG	SWBF0034-041330	SWBF0040

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	4/13/2021	4/20/2021	No
TSS	Aqueous	SM2540D	4/13/2021	4/20/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/18/2021
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0031-041321	10555588001	735769	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	735769	FG-N	SWBF0034-041321	SWBF0032
SWBF0033-041321	10555588003	735769	FG-D	SWBF0034-041321	SWBF0033
SWBF0034-041321	10555588004	735769	FB	SWBF0034-041321	SWBF0034
SWBF0039-041321	10555588009	735769	FG	SWBF0034-041321	SWBF0039
SWBF0040-041321	10555588010	735769	FG	SWBF0034-041321	SWBF0040

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	4/13/2021	4/18/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/27/2021
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0031-041321	10555588001	716412	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	716412	FG-N	SWBF0034-041321	SWBF0032
SWBF0033-041321	10555588003	716412	FG-D	SWBF0034-041321	SWBF0033
SWBF0034-041321	10555588004	716412	FB	SWBF0034-041321	SWBF0034
SWBF0039-041321	10555588009	716412	FG	SWBF0034-041321	SWBF0039
SWBF0040-041321	10555588010	716412	FG	SWBF0034-041321	SWBF0040

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	4/13/2021	4/27/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If an MSD was used for the laboratory duplicate sample, anf if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y_X_ N___
If an MSD was used for the laboratory duplicate sample, were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 716412, MS 2881923 MSD 2881924 TKN recovery <90%. MS 2881918 recovery was >110%; however the parent sample used for this MS was not project associated so matrix similarity could not be assessed. No TKN results were qualified based on MS 2881918 recovery. The parent used for MS 2881923 MSD 2881924 was project associated. The parent sample was collected downstream of a point-source discharge and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. TKN results in SWBF0031 and SWBF0032 were > the MDL and qualified J-. The TKN result for SWBF0033 was < the MDL and qualified UJ. Field blanks are not qualified for MS/MSD recoveries since they are of a differing matrix than the parent sample.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/28/2021
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0031-041321	10555588001	738043	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	738043	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	738043	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	738043	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	738043	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	738043	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	738043	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	738043	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	738043	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	738043	FG	SWBF0034-041330	SWBF0040

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	4/13/2021	4/28/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/20/2021
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0031-041321	10555588001		FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002		FG-N	SWBF0034-041321	SWBF0032
SWBF0033-041321	10555588003		FG-D	SWBF0034-041321	SWBF0033
SWBF0034-041321	10555588004		FB	SWBF0034-041321	SWBF0034
SWBF0039-041321	10555588009		FG	SWBF0034-041321	SWBF0039
SWBF0040-041321	10555588010		FG	SWBF0034-041321	SWBF0040

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	4/13/2021	4/20/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

4. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	

4. Matrix Spike (MS)

Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/29/2021
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0031-041321	10555588001	738369	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	738369	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	738369	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	738369	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	738369	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	738369	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	738369	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	738369	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	738369	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	738369	FG	SWBF0034-041330	SWBF0040

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	4/13/2021	4/29/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	4/13/2021	**Analysis Date(s):**	4/25/2021
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0031-041321	10555588001	737263	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	737263	FG-N	SWBF0034-041321	SWBF0032
SWBF0033-041321	10555588003	737263	FG-D	SWBF0034-041321	SWBF0033
SWBF0034-041321	10555588004	737263	FB	SWBF0034-041321	SWBF0034
SWBF0039-041321	10555588009	737263	FG	SWBF0034-041321	SWBF0039
SWBF0040-041321	10555588010	737263	FG	SWBF0034-041321	SWBF0040

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	4/13/2021	4/25/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10555588
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	4/13/2021		
Data Validator:	Nadia Reed	**Validation Date:**	5/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0031-041321	10555588001	FG	SWBF0034-041321	SWBF0031
SWBF0032-041321	10555588002	FG-N	SWBF0034-041322	SWBF0032
SWBF0033-041321	10555588003	FG-D	SWBF0034-041323	SWBF0033
SWBF0034-041321	10555588004	FB	SWBF0034-041324	SWBF0034
SWBF0035-041321	10555588005	FG	SWBF0034-041325	SWBF0035
SWBF0036-041321	10555588006	FG	SWBF0034-041326	SWBF0036
SWBF0037-041321	10555588007	FG	SWBF0034-041327	SWBF0037
SWBF0038-041321	10555588008	FG	SWBF0034-041328	SWBF0038
SWBF0039-041321	10555588009	FG	SWBF0034-041329	SWBF0039
SWBF0040-041321	10555588010	FG	SWBF0034-041330	SWBF0040

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	4/13/2021	4/20/2021
Total Hg	Aqueous	EPA 245.1	4/13/2021	4/20/2021, 4/26/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	4/13/2021	4/28/2021, 4/29/2021, 5/04/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	4/13/2021	4/28/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	4/13/2021	4/21/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	4/13/2021	4/20/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	4/13/2021	4/20/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	4/13/2021	4/28/2021
Ammonia (NH3)	Aqueous	EPA 350.1	4/13/2021	4/18/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	4/13/2021	4/27/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	4/13/2021	4/20/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	4/13/2021	4/25/2021
Sulfate (SO4)	Aqueous	ASTM D516	4/13/2021	4/29/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

AlDis was detected in FB SWBF0034 at a concentration >1.5X MDL. Associated AlDis results in SWBF0031 was >RL but, ≤10X FB value and was qualifed J+. Associated AlDis results in SWBF0032, SWBF0033, SWBF0035-SWBF0037 were > the MDL but ≤RL and were qualified UJ. Associated AlDis results in SWBF0038-SWBF0040 were non-detect therefore were not qualified.

FeTR was detected in FB SWBF0034 at a concentration >1.5X MDL. Associated FeTR results in SWBF0031-SWBF0033 and SWBF0037 were > RL but, ≤ 10X blank value and were qualified J+. The remaining FeTR sample results were >10X the FB value, thus were not qualified.

MoDis and MoTR were detected in FB SWBF0034 at a concentration >1.5X MDL. The remaining MoDis and MoTR sample results were >10X the FB value, thus were not qualified.

TDS was detected in FB SWBF0034 at a concentration >1.5X MDL. All TDS results were >10X the FB value, thus were not qualified.

AgDis, DOC, MgDis, PbTR, and SO4 ~~TR~~ were detected in FB SWBF0034 at concentrations <1.5X MDL, thus were not further assessed per TREC DV Guidelines.

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Duplicate set SWBF0032/SWBF0033, RPDS >20% were as follows. CuTR 24.66%, HgTR 136.84%, Ammonia 80%, PbTR 25.64%, TKN 151.76%. The natural and duplicate ammonia results were <5X the RL and the absolute differences between the respective results were <RL thus, no ammonia results were qualified for field precision. Natural and duplicate HgTR results were <5X the RL, but the difference between the two results was > the RL. Natural and duplicate CuTR and PbTR were > 5X the RL. Duplicate TKN result was < 5X the RL, but the difference between the natural and duplicate results was > the RL.

The duplicate set was collected downstream of a point-source discharge and has matrix similarity to samples SWBF0031 and SWBF0035-SWBF0037 (excluding FB SWBF0034). HgTR results for SWBF0031-SWBF0032 were non-detect and qualified UJ. HgTR results for SWBF0033 and SWBF0035-SWBF0037 were > MDL thus qualfied J. CuTR and PbTR results SWBF0031-SWBF0033 and SWBF0035-SWBF0037 were > MDL and qualified J. TKN results for SWBF0031 and SWBF0032 were > MDL thus qualified J. TKN result for SWBF0033 was non-detect and qualified UJ.

TKN results were also qualified for matrix spike recovery which resulted in overall J- qualifiers for SWBF0031 and SWBF0032, while the TKN result for SWBF0033 was qualified UJ.

FBs are not assessed for field precision since they are of a differing matrix than the duplicate sample set.

Additional Comments

DATA VALIDATION CHECKLIST FOR SDG 10561813

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4); Chloride (Cl-); Fluoride (F)
Sample Date(s):	5/19/2021	**Analysis Date(s):**	
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

DATA VALIDATION CHECKLIST FOR SDG 10561813

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10561813001	SWBF0041-051921		FG	SWBF0044-051921	SWBF0041
10561813002	SWBF0042-051921		FG-N	SWBF0044-051921	SWBF0042
10561813003	SWBF0043-051921	Leave this column blank in this worksheet.	FG-D	SWBF0044-051921	SWBF0043
10561813004	SWBF0044-051921		FB	SWBF0044-051921	SWBF0044
10561813005	SWBF0045-051921		FG	SWBF0044-051921	SWBF0045
10561813006	SWBF0046-051921		FG	SWBF0044-051921	SWBF0046
10561813007	SWBF0047-051921		FG	SWBF0044-051921	SWBF0047
10561813008	SWBF0048-051921		FG	SWBF0044-051921	SWBF0048
10561813010	SWBF0049-051921		FG	SWBF0044-051921	SWBF0049
10561813009	SWBF0050-051921		FG	SWBF0044-051921	SWBF0050

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10561813001	SWBF0041-051921		FG	SWBF0044-051921	SWBF0041
10561813002	SWBF0042-051921		FG-N	SWBF0044-051921	SWBF0042
10561813003	SWBF0043-051921		FG-D	SWBF0044-051921	SWBF0043
10561813004	SWBF0044-051921		FB	SWBF0044-051921	SWBF0044
10561813006	SWBF0046-051921		FG	SWBF0044-051921	SWBF0046
10561813007	SWBF0047-051921		FG	SWBF0044-051921	SWBF0047
10561813008	SWBF0048-051921		FG	SWBF0044-051921	SWBF0048
10561813010	SWBF0049-051921		FG	SWBF0044-051921	SWBF0049
10561813009	SWBF0050-051921		FG	SWBF0044-051921	SWBF0050

DATA VALIDATION CHECKLIST FOR SDG

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	5/19/2021		
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0041-051921	10561813001	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	FB	SWBF0044-051921	SWBF0044
SWBF0049-051921	10561813010	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	FG	SWBF0044-051921	SWBF0050

DATA VALIDATION CHECKLIST FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	5/19/2021	6/15/2021
Total Hg	Aqueous	EPA 245.1	5/19/2021	6/15/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	5/19/2021	6/8/2021, 6/14/21, 6/15/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	5/19/2021	6/8/2021, 6/24/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	5/19/2021	5/29/2021, 6/1/2021, 6/2/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	5/19/2021	5/26/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/19/2021	5/26/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	5/19/2021	6/4/2021
Ammonia (NH3)	Aqueous	EPA 350.1	5/19/2021	6/2/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	5/19/2021	6/1/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	5/19/2021	6/3/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	5/19/2021	6/3/2021, 6/8/2021
Sulfate (SO4)	Aqueous	ASTM D516	5/19/2021	6/4/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	205	35	0
Percentage		79%	85%	15%	0%

Analyses of this sample set resulted in 240 natural data points. Of these, 205 (85%) had no quality control deficiencies and are defined as enforcement quality while, 35 (15%) had quality control deficiencies and are defined as screening quality. Of the 35 qualified data points; 17 were coded "IP" for improper preservation due to a cooler arriving at the laboratory out of temperature, two were coded "MS" due to laboratory accuracy criteria not being met, ten were coded "FB" due to field accuracy criteria not being met, and six were coded "IP,MS" for arriving at the laboratory out of temperature and laboratory accuracy not being met. All anticipated data was collected thus, completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	5/19/2021	**Analysis Date(s):**	6/15/2021
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0041-051921	10561813001	748681	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	748681	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	748681	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	748681	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	748681	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	748681	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	748681	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	748681	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	748681	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	748681	FG	SWBF0044-051921	SWBF0050
Total Mercury					
SWBF0041-051921	10561813001	748684	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	748684	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	748684	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	748684	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	748684	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	748684	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	748684	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	748684	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	748684	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	748684	FG	SWBF0044-051921	SWBF0050

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	5/19/2021	6/15/2021	No
Total Hg	Aqueous	EPA 245.1	5/19/2021	6/15/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	5/19/2021	**Analysis Date(s):**	6/8/2021, 6/14/21, 6/15/2021, 6/8/2021, 6/24/21
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWBF0041-051921	10561813001	745716	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	745716	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	745716	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	747567	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	745716	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	745716	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	745716	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	745716	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	745716	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	745716	FG	SWBF0044-051921	SWBF0050

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Total Metals					
SWBF0041-051921	10561813001	745715	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	745715, 750378 (Fe)	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	745715, 750378 (Fe)	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	745715	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	745715, 750378 (Fe)	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	745715, 750378 (Fe)	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	745715, 750378 (Fe)	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	745715	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	745715	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	745715	FG	SWBF0044-051921	SWBF0050

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	5/19/2021	6/8/2021, 6/14/21, 6/15/2021	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	5/19/2021	6/8/2021, 6/24/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y_X_ N___
Describe corrective actions taken because of blank problems.	

***QC Batch 745715**, AlTR, FeTR, and MoTR were detected in MB 3977715. AlTR was detected at concentrations ≤ 1.5X MDL thus, was not further assessed per TREC data validation guidelines. FeTR and MoTR were detected at concentrations >1.5X MDL, but associated FeTR and MoTR sample results were >10X the MB value or < the MDL, thus were not qualified.*

QC Batch 745716, CaDis was detected in MB 3977738 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.

QC Batch 747567, AgDis was detected in MB 3987428 at a concentration >1.5X MDL. The single assoicated AgDis sample result SWBF0044 (field blank) was ≥MDL, but ≤ RL and qualified UJ.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of ICS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	

***QC Batch 745716**, MS 3977740 MSD 3977741 CaDis recoveries < 70%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentration.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	5/19/2021	**Analysis Date(s):**	5/29/2021, 6/1/2021, 6/2/2021
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0041-051921	10561813001	745892	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	745892	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	745892	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	745892	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	745892	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	745895	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	745895	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	745892	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	745484	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	745890	FG	SWBF0044-051921	SWBF0050

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	5/19/2021	5/29/2021, 6/1/2021, 6/2/2021	Yes

Describe corrective actions taken because of holding time problems.

***QC Batch 745892** , Samples SWBF0041 - SWBF0045 were received at the laboratory out of temperature. Alkalinity results in samples SWBF0041 - SWBF0043 and SWBF0045 were >MDL and qualified J-. Alkalinity result in SWBF0044 (field blank) was non-detect and qualified UJ.*

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 745892 *, MS 3978787 MSD 3978788 recoveries <80%. The parent sample for this MS/MSD was collected downstream of a point source discharge and water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Samples SWBF0041-SWBF0043 and SWBF0045 were also collected downstream of the discharge. Sample SWBF0048 was collected upstream of the discharge. While the alkalinity result is similar for this sample and downstream samples, concentrations of TDS, sulfate, Ca, and some metals (Mo and Zn) for SWBF0048 differ from those of downstream samples. Thus, based on matrix dissimilarity, alkalinity results only in SWBF0041-SWBF0043 and SWBF0045 were qualified (J-). Sample SWBF0044 was the field blank, thus not assessed for MS recovery since it's of a differing matrix.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	5/19/2021	**Analysis Date(s):**	5/26/2021
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0041-051921	10561813001	744605	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	744605	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	744605	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	744605	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	744605	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	744605	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	744605	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	744605	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	744606	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	744605	FG	SWBF0044-051921	SWBF0050
Total Suspended Solids (TSS)					
SWBF0041-051921	10561813001	744608	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	744608	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	744608	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	744608	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	744608	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	744608	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	744608	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	744609	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	744609	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	744609	FG	SWBF0044-051921	SWBF0050

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	5/19/2021	5/26/2021	Yes
TSS	Aqueous	SM2540D	5/19/2021	5/26/2021	Yes

Describe corrective actions taken because of holding time problems.

***QC Batch 740605** , Samples SWBF0041 - SWBF0045 were received at the laboratory out of temperature. TDS results in samples SWBF0041 - SWBF0045 were ≥MDL and qualified J-.*

***QC Batch 744608** , Samples SWBF0041 - SWBF0045 were received at the laboratory out of temperature. TSS results in samples SWBF0041, SWBF0042, SWBF0044, and SWBF0045 were non-detect and qualified UJ. Sample result SWBF0043 was > MDL and qualified J-.*

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	5/19/2021	**Analysis Date(s):**	6/2/2021
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0041-051921	10561813001	746122	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	746122	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	746122	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	746122	FB	SWBF0044-051921	SWBF0044
SWBF0049-051921	10561813010	746179	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	746122	FG	SWBF0044-051921	SWBF0050

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	5/19/2021	6/2/2021	Yes

Describe corrective actions taken because of holding time problems.

QC Batch 746122, Samples SWBF0041 - SWBF0044 were received at the laboratory out of temperature. NH3 results in samples SWBF0041 - SWBF0044 were non-detect and qualified UJ.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
***QC Batch 746122** , MSD 3979732 recovery >110%. Associated NH3 sample results were non-detect and were not qualified.*	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	5/19/2021	**Analysis Date(s):**	6/1/2021
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0041-051921	10561813001	723468	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	723468	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	723468	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	723468	FB	SWBF0044-051921	SWBF0044
SWBF0049-051921	10561813010	723468	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	723468	FG	SWBF0044-051921	SWBF0050

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	5/19/2021	6/1/2021	Yes

Describe corrective actions taken because of holding time problems.

QC Batch 723468, samples SWBF0041 - SWBF0044 were received at the laboratory out of temperature. Associated TKN results in samples SWBF0041 - SWBF0043 were ≥MDL and qualified J-. The TKN result in sample SWBF0044 (field blank) was non-detect and qualified UJ.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If an MSD was used for the laboratory duplicate sample, anf if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y___ N___ NA _X_
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y___ N_X_
If an MSD was used for the laboratory duplicate sample, were any data flagged because of MS/MSD RPD problems?	Y___ N___ NA _X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 723468, MS 2908520 and MS 2908522 TKN recoveries >110%. The parent samples used for both cases were not project associated thus, matrix similarity could not be determined. Additionally, in both cases, the parent sample concentrations were >4X the spike concentrations. No associated TKN sample results were qualified due to MS recovery.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	5/19/2021	**Analysis Date(s):**	6/4/2021
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0041-051921	10561813001	746625	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	746625	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	746625	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	746625	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	746625	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	746625	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	746625	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	746625	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	746625	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	746625	FG	SWBF0044-051921	SWBF0050

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	5/19/2021	6/4/2021	Yes

Describe corrective actions taken because of holding time problems.

***QC Batch 746625** , samples SWBF0041 - SWBF0045 were received at the laboratory out of temperature. Associated NO2+NO3 results in SWBF0041 - SWBF0043 and SWBF0045 were ≥MDL and qualified J-. Sample result SWBF0044 (field blank) was non-detect and qualified UJ.*

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

***QC Batch 746625** , NO2+NO3 was detected in MB 3982559 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	5/19/2021	**Analysis Date(s):**	6/3/2021
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0041-051921	10561813001	724145	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	724145	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	724145	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	724145	FB	SWBF0044-051921	SWBF0044
SWBF0049-051921	10561813010	724145	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	724145	FG	SWBF0044-051921	SWBF0050

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	5/19/2021	6/3/2021	Yes

Describe corrective actions taken because of holding time problems.

QC Batch 724145, samples SWBF0041 - SWBF0044 were received at the laboratory out of temperature. Associated DOC results in samples SWBF0041 - SWBF0043 were ≥MDL and qualified J-. The DOC result in SWBF0044 (field blank) was non-detect and qualified UJ.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
4. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS)	
Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	5/19/2021	**Analysis Date(s):**	6/4/2021
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0041-051921	10561813001	746687	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	746687	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	746687	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	746687	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	746687	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	746687	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	746687	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	746687	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	746687	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	746687	FG	SWBF0044-051921	SWBF0050

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	5/19/2021	6/4/2021	Yes

Describe corrective actions taken because of holding time problems.

QC Batch 746687, samples SWBF0041 - SWBF0045 were received at the laboratory out of temperture. Associated SO4 results in samples SWBF0041 - SWBF0043 and SWBF0045 were ≥MDL and qualified J-. The SO4 result in SWBF0044 (field blank) was non-detect and qualified UJ.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 746687**, MS 3982866 MSD 3982867 SO4 recoveries >120%, but the parent sample was not project associated and matrix similarity could not be determined thus, no data were qualified based on these MS/MSD recoveries.*

***QC Batch 746687**, MS 3982868 MSD 3982869 SO4 recoveries >120%. The parent sample used for the MS/MSD was collected downstream of a point source discharge, and water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Samples SWBF0041-SWBF0043 and SWBF0045-SWBF0047 were also collected downstream of the discharge, were ≥MDL, and qualified J+ . Sample results SWBF0041 - SWBF0043 and SWBF0045 were also qualified for improper preservation thus, the overall qualifier for these samples was J. Samples SWBF0048-SWBF0050 were collected upstream of the discharge, thus were not qualified. The field blank (SW0044) was not qualified since it is of a dissimilar matrix to the MS/MSD parent.*

Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	5/19/2021	**Analysis Date(s):**	6/3/2021, 6/8/2021
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0041-051921	10561813001	745818	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	745818	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	745818	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	745818	FB	SWBF0044-051921	SWBF0044
SWBF0049-051921	10561813010	747145	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	745818	FG	SWBF0044-051921	SWBF0050

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	5/19/2021	6/3/2021, 6/8/2021	Yes

Describe corrective actions taken because of holding time problems.

QC Batch 745818, samples SWBF0041 - SWBF0044 were received at the laboratory out of temperature. Associated total phosphorus results in samples SWBF0041 was ≥MDL and qualified J-. Sample results SWBF0042 - SWBF0044 were non-detect and qualified UJ.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10561813
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	5/19/2021		
Data Validator:	Michele Bay	**Validation Date:**	8/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0041-051921	10561813001	FG	SWBF0044-051921	SWBF0041
SWBF0042-051921	10561813002	FG-N	SWBF0044-051921	SWBF0042
SWBF0043-051921	10561813003	FG-D	SWBF0044-051921	SWBF0043
SWBF0044-051921	10561813004	FB	SWBF0044-051921	SWBF0044
SWBF0045-051921	10561813005	FG	SWBF0044-051921	SWBF0045
SWBF0046-051921	10561813006	FG	SWBF0044-051921	SWBF0046
SWBF0047-051921	10561813007	FG	SWBF0044-051921	SWBF0047
SWBF0048-051921	10561813008	FG	SWBF0044-051921	SWBF0048
SWBF0049-051921	10561813010	FG	SWBF0044-051921	SWBF0049
SWBF0050-051921	10561813009	FG	SWBF0044-051921	SWBF0050

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	5/19/2021	6/15/2021
Total Hg	Aqueous	EPA 245.1	5/19/2021	6/15/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	5/19/2021	6/8/2021, 6/14/21, 6/15/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	5/19/2021	6/8/2021, 6/24/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	5/19/2021	5/29/2021, 6/1/2021, 6/2/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	5/19/2021	5/26/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/19/2021	5/26/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	5/19/2021	6/4/2021
Ammonia (NH3)	Aqueous	EPA 350.1	5/19/2021	6/2/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	5/19/2021	6/1/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	5/19/2021	6/3/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	5/19/2021	6/3/2021, 6/8/2021
Sulfate (SO4)	Aqueous	ASTM D516	5/19/2021	6/4/2021

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)?	Y_X_ N___
Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)?	Y___ N_X_
Were any data qualified because of FB problems?	Y_X_ N___

Field blank SWBF0044 had detections of AgDis, CdDis, PbDis, and TDS at concentrations >1.5X MDL.
AgDis sample result SWBF0041 was ≥MDL, but ≤RL and was qualified UJ. The remaining AgDis sample results were non-detect and not qualified.
CdDis sample results SWB0043 and SWBF0045 - SWBF0047 were ≥MDL, but ≤RL and were qualified UJ. CdDis results in SWBF0041 and SWBF0042 were >RL, but <10X the FB value and qualified J+. The remaining CdDis sample results were non-detect and not qualified.
PbDis sample results SWBF0043 and SWBF0048-SWBF0050 were ≥MDL, but ≤RL and qualified UJ. PbDis sample result SWBF0041 was >RL, but <10X the FB value and was qualified J+. The remaining PbDis sample results were non-detect and not qualified.
TDS sample results were >10X the FB value and were not qualified.
Field blank SWBF0044 had detections of CaDis, hardness, MgDis, MoDis, and PbTR at concentrations <1.5X the MDL thus, were not further assessed per TREC data validation guidelines.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)?	Y_X_ N___
Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)?	Y_X_ N___
Were any data qualified because of FD results?	Y___ N_X_

Duplicate sets SWBF0042/SWBF0043 had RPDs>20% for AlDis, CdDis, FeDis, and TKN; but the primary and duplicate results were <5X the RL and the absoluted difference between primary and duplicate samples was <RL thus, no data were qualified.

Additional Comments

DATA VALIDATION CHECKLIST FOR SDG 10564925

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4); Chloride (Cl-); Flouride (F)
Sample Date(s):	6/9/2021	**Analysis Date(s):**	
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

DATA VALIDATION CHECKLIST FOR SDG 10564925

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10564925001	SWBF0055-060921		FG	SWBF0058-060921	SWBF0055
10564925002	SWBF0056-060921		FG-N	SWBF0058-060921	SWBF0056
10564925003	SWBF0057-060921	Leave this column blank in this worksheet.	FG-D	SWBF0058-060921	SWBF0057
10564925004	SWBF0058-060921		FB	SWBF0058-060921	SWBF0058
10564925005	SWBF0059-060921		FG	SWBF0058-060921	SWBF0059
10564925006	SWBF0060-060921		FG	SWBF0058-060921	SWBF0060
10564925007	SWBF0061-060921		FG	SWBF0058-060921	SWBF0061
10564925008	SWBF0062-060921		FG	SWBF0058-060921	SWBF0062
10564925009	SWBF0063-060921		FG	SWBF0058-060921	SWBF0063
10564925010	SWBF0064-060921		FG	SWBF0058-060921	SWBF0064

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10564925001	SWBF0055-060921		FG	SWBF0058-060921	SWBF0055
10564925002	SWBF0056-060921		FG-N	SWBF0058-060921	SWBF0056
10564925003	SWBF0057-060921		FG-D	SWBF0058-060921	SWBF0057
10564925004	SWBF0058-060921		FB	SWBF0058-060921	SWBF0058
10564925005	SWBF0059-060921		FG	SWBF0058-060921	SWBF0059
10564925006	SWBF0060-060921		FG	SWBF0058-060921	SWBF0060
10564925008	SWBF0062-060921		FG	SWBF0058-060921	SWBF0062
10564925009	SWBF0063-060921		FG	SWBF0058-060921	SWBF0063
10564925010	SWBF0064-060921		FG	SWBF0058-060921	SWBF0064

DATA VALIDATION SUMMARY FOR SDG

DATA VALIDATION SUMMARY FOR SDG 10564925

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	6/9/2021		
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0055-060921	10564925001	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	FG	SWBF0058-060921	SWBF0060

DATA VALIDATION SUMMARY FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	6/9/2021	6/17/2021
Total Hg	Aqueous	EPA 245.1	6/9/2021	6/17/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	6/9/2021	6/25/2021, 6/28/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	6/9/2021	6/24/2021, 6/25/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	6/9/2021	6/23/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	6/9/2021	6/16/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	6/9/2021	6/16/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	6/9/2021	6/16/2021
Ammonia (NH3)	Aqueous	EPA 350.1	6/9/2021	6/21/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	6/9/2021	6/23/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	6/9/2021	6/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	6/9/2021	6/21/2021
Sulfate (SO4)	Aqueous	ASTM D516	6/9/2021	6/20/2021, 6/24/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_ X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_ X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	214	26	
Percentage		79%	89%	11%	0%

Analyses of this sample set resulted in 240 natural data points. Of these, 214 (89%) had no quality control deficiencies and are defined as enforcement quality while, 26 (11%) had quality control deficiencies and are defined as screening quality. Of the 26 qualified data points; six were coded "MS" due to laboratory accuracy criteria not being met, twelve were coded "FB" due to field accuracy criteria not being met, and eight were coded "FD" due to field precision criteria not being met. All anticipated data was collected thus, completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/17/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0055-060921	10564925001	749420	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	749420	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	749420	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	749420	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	749425	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	749425	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	749425	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	749425	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	749425	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	749425	FG	SWBF0058-060921	SWBF0064
Total Mercury					
SWBF0055-060921	10564925001	749424	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	749424	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	749424	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	749424	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	749424	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	749424	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	749424	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	749424	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	749424	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	749424	FG	SWBF0058-060921	SWBF0064

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	6/9/2021	6/17/2021	No
Total Hg	Aqueous	EPA 245.1	6/9/2021	6/17/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/25/2021, 6/28/2021, 6/24/2021, 6/25/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWBF0055-060921	10564925001	750605	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	750605	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	750605	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	750605	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	750605	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	750605	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	750605	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	750605	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	750605	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	750605	FG	SWBF0058-060921	SWBF0064
Total Metals					
SWBF0055-060921	10564925001	750657	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	750657	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	750657	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	750657	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	750657	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	750657	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	750657	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	750657	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	750657	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	750657	FG	SWBF0058-060921	SWBF0064

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	6/9/2021	6/25/2021, 6/28/2021	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	6/9/2021	6/24/2021, 6/25/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___
Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS problems.

***QC Batch 750605**, MS 4003692 MSD 4003693 CaDis recovery <70%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentration.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/23/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0055-060921	10564925001	751522	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	751522	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	751522	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	751522	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	751522	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	751586	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	751586	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	751586	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	751586	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	751586	FG	SWBF0058-060921	SWBF0064

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	6/9/2021	6/23/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC Batch 751522**, MS 4007647 MSD 4007648 recoveries <80%. The parent sample for this MS was collected downstream of a point-source discharge and all other samples in this QC batch were collected upstream of the discharge or were a field blank. Water chemistry downstream of the discharge differs from water chemistry upstream of the discharge.Thus, only the parent sample, SWBF0059 was qualified (J-).*

***QC Batch 751586**, MS 4008038 recovery <80%, but the parent sample used for MS/MSD was not project associated so matrix similarity could not be determined thus, no data were qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/16/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0055-060921	10564925001	749757	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	749757	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	749757	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	749757	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	749757	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	749760	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	749760	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	749760	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	749760	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	749760	FG	SWBF0058-060921	SWBF0064
Total Suspended Solids (TSS)					
SWBF0055-060921	10564925001	749742	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	749742	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	749742	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	749742	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	749743	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	749743	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	749743	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	749743	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	749743	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	749743	FG	SWBF0058-060921	SWBF0064

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	6/9/2021	6/16/2021	No
TSS	Aqueous	SM2540D	6/9/2021	6/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 749757, *TDS was detected in MB 3999113 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

QC Batch 749760, *TDS was detected in MB 3999127 at a concentration >1.5X MDL. Associated TDS sample results were all >10X the MB value and were not qualified.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/21/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0055-060921	10564925001	750784	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	750784	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	750784	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	750785	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	750785	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	750785	FG	SWBF0058-060921	SWBF0060

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	6/9/2021	6/21/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 750784, MSD 4004274 recovery >110%, but the parent sample used for MS/MSD was not project associated so matrix similarity could not be determined thus, no data were qualified.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/23/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0055-060921	10564925001	728092	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	728092	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	728092	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	728092	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	728092	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	728092	FG	SWBF0058-060921	SWBF0060

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	6/9/2021	6/23/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If an MSD was used for the laboratory duplicate sample, anf if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y___ N_X_
If an MSD was used for the laboratory duplicate sample, were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/16/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0055-060921	10564925001	749645	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	749645	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	749645	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	749645	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	749645	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	749645	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	749645	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	749645	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	749645	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	749645	FG	SWBF0058-060921	SWBF0064

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	6/9/2021	6/16/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/16/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0055-060921	10564925001	726747	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	726747	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	726747	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	726747	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	726747	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	726747	FG	SWBF0058-060921	SWBF0060

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	6/9/2021	6/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

4. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS)	
Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/20/2021, 6/24/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0055-060921	10564925001	750585	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	750585	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	751763	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	751763	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	751763	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	751763	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	751763	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	751763	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	751763	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	751763	FG	SWBF0058-060921	SWBF0064

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	6/9/2021	6/20/2021, 6/24/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 750585**, MS 4003596 MSD 4003597 recoveries <80%, but the parent sample used for MS/MSD was not project associated so matrix similarity could not be determined thus, no data were qualified.*

***QC Batch 751763**, MS 4008752 MSD 4008753 recoveries <80%. Associated sample sulfate results SWBF0059 - SWBF0063 were ≥MDL and qualified J-. Associated sample results SWBF0057 and SWBF0064 were collected upsteam of a point source discharge, while the parent sample SWBF0059 was collected downstream of the point source discharge. Water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Thus, sulfate results in SWBF0057 and SWBF0064 (and SWBF0058 the FB) were not qualified for MS/MSD recovery criteria.*

***QC Batch 751763**, MS 4008754 recovery >120%, but the parent sample used for MS/MSD was not project associated so matrix similarity could not be determined thus, no data were qualified based on this MS recovery.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	6/9/2021	**Analysis Date(s):**	6/21/2021
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0055-060921	10564925001	750604	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	750604	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	750604	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	750604	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	750604	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	750604	FG	SWBF0058-060921	SWBF0060

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	6/9/2021	6/21/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
0	
3. Laboratory Control Sample (LCS)	
Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
0	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
0	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_
0	

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10564925
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	6/9/2021		
Data Validator:	Michele Bay	**Validation Date:**	8/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0055-060921	10564925001	FG	SWBF0058-060921	SWBF0055
SWBF0056-060921	10564925002	FG-N	SWBF0058-060921	SWBF0056
SWBF0057-060921	10564925003	FG-D	SWBF0058-060921	SWBF0057
SWBF0058-060921	10564925004	FB	SWBF0058-060921	SWBF0058
SWBF0059-060921	10564925005	FG	SWBF0058-060921	SWBF0059
SWBF0060-060921	10564925006	FG	SWBF0058-060921	SWBF0060
SWBF0061-060921	10564925007	FG	SWBF0058-060921	SWBF0061
SWBF0062-060921	10564925008	FG	SWBF0058-060921	SWBF0062
SWBF0063-060921	10564925009	FG	SWBF0058-060921	SWBF0063
SWBF0064-060921	10564925010	FG	SWBF0058-060921	SWBF0064

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	6/9/2021	6/17/2021
Total Hg	Aqueous	EPA 245.1	6/9/2021	6/17/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	6/9/2021	6/25/2021, 6/28/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	6/9/2021	6/24/2021, 6/25/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	6/9/2021	6/23/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	6/9/2021	6/16/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	6/9/2021	6/16/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	6/9/2021	6/16/2021
Ammonia (NH3)	Aqueous	EPA 350.1	6/9/2021	6/21/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	6/9/2021	6/23/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	6/9/2021	6/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	6/9/2021	6/21/2021
Sulfate (SO4)	Aqueous	ASTM D516	6/9/2021	6/20/2021, 6/24/2021

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)?	Y_X_ N___
Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)?	Y___ N_X_
Were any data qualified because of FB problems?	Y_X_ N___

FeTR, MgDis, NO2+NO3, and ZnDis were detected in FB SWBF0058 at concentrations <1.5X MDL thus, were not further assessed per TREC data validation guidelines.

CaDis, DOC, hardness, and PbTR were detected in FB SWBF0058 at concentrations >1.5X MDL. Associated CaDis and hardness results were >10X the FB value thus, no CaDis or hardness data were qualified. Associated DOC results SWBF0055 - SWBF0057, SWBF0059, and SWBF0060 were >RL, but <10X the FB value and were qualified J+. Associated PbTR results SWBF0055 - SWBF0057 and SWBF0059 - SWBF0064 were >RL, but <10X the FB value and were qualified J+

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)?	Y_X_ N___
Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)?	Y___ N_X_
Were any data qualified because of FD results?	Y_X_ N___

Duplicate set SWBF0056/SWBF0057 had RPD >20% for total phosphate and TDS. The primary and duplicate results for total phosphate were both <5X the RL and the absolute difference between primary and duplicate sample results were <RL thus, no associated total phosphate results were qualified. The primary and duplicate results for TDS were both >5X the RL and the RPD was 70.4%. Associated TDS sample results SWBF0055 - SWBF0057 and SWBF0059 - SWBF0064 were >MDL and qualified J.

Additional Comments

DATA VALIDATION CHECKLIST FOR SDG10569157

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4); Chloride (Cl-); Fluoride (F)
Sample Date(s):	7/8/2021	**Analysis Date(s):**	
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

DATA VALIDATION CHECKLIST FOR SDG10569157

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10569157001	SWBF0081-070821		FG	SWBF0084-070821	SWBF0081
10569157002	SWBF0082-070821		FG-N	SWBF0084-070821	SWBF0082
10569157003	SWBF0083-070821	Leave this column blank in this worksheet.	FG-D	SWBF0084-070821	SWBF0083
10569157004	SWBF0084-070821		FB	SWBF0084-070821	SWBF0084
10569157005	SWBF0085-070821		FG	SWBF0084-070821	SWBF0085
10569157006	SWBF0086-070821		FG	SWBF0084-070821	SWBF0086
10569157007	SWBF0087-070821		FG	SWBF0084-070821	SWBF0087
10569157008	SWBF0088-070821		FG	SWBF0084-070821	SWBF0088
10569157009	SWBF0089-070821		FG	SWBF0084-070821	SWBF0089
10569157010	SWBF0090-070821		FG	SWBF0084-070821	SWBF0090

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10569157001	SWBF0081-070821		FG	SWBF0084-070821	SWBF0081
10569157002	SWBF0082-070821		FG-N	SWBF0084-070821	SWBF0082
10569157003	SWBF0083-070821		FG-D	SWBF0084-070821	SWBF0083
10569157004	SWBF0084-070821		FB	SWBF0084-070821	SWBF0084
10569157006	SWBF0086-070821		FG	SWBF0084-070821	SWBF0086
10569157007	SWBF0087-070821		FG	SWBF0084-070821	SWBF0087
10569157008	SWBF0088-070821		FG	SWBF0084-070821	SWBF0088
10569157009	SWBF0089-070821		FG	SWBF0084-070821	SWBF0089
10569157010	SWBF0090-070821		FG	SWBF0084-070821	SWBF0090

DATA VALIDATION SUMMARY FOR SDG 10569157

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	7/8/2021		
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0081-070821	10569157001	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	FG	SWBF0084-070821	SWBF0090

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	7/8/2021	7/20/2021
Total Hg	Aqueous	EPA 245.1	7/8/2021	7/15/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	7/8/2021	7/23/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	7/8/2021	7/20/2021, 7/21/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	7/8/2021	7/19/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	7/8/2021	7/15/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	7/8/2021	7/15/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	7/8/2021	7/22/2021
Ammonia (NH3)	Aqueous	EPA 350.1	7/8/2021	7/20/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	7/8/2021	7/21/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	7/8/2021	7/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	7/8/2021	7/22/2021
Sulfate (SO4)	Aqueous	ASTM D516	7/8/2021	7/19/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	224	16	
Percentage		79%	93%	7%	0%

Analyses of this sample set resulted with 240 natural data points. Of these, 224 (93%) had no quality control deficiencies and are defined as enforcement quality while, 16 (7%) had quality control deficiencies and are defined as screening quality. Of the 16 qualifed data points; five were coded "MS" due to laboratory accuracy criteria not being met, and 11 were coded "FB" due to field accuracy criteria not being met. All anticipated data was collected thus, completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/20/2021, 7/15/2021
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0081-070821	10569157001	756742	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	756742	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	756742	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	756742	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	756742	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	756742	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	756742	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	756742	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	756742	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	756742	FG	SWBF0084-070821	SWBF0090
Total Mercury					
SWBF0081-070821	10569157001	756126	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	756126	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	756126	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	756126	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	756126	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	756126	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	756126	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	756126	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	756126	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	756126	FG	SWBF0084-070821	SWBF0090

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	7/8/2021	7/20/2021	No
Total Hg	Aqueous	EPA 245.1	7/8/2021	7/15/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/23/2021, 7/20/2021, 7/21/21
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWBF0081-070821	10569157001	757802	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	757802	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	757802	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	757802	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	757802	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	757802	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	757802	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	757802	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	757802	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	757802	FG	SWBF0084-070821	SWBF0090
Total Metals					
SWBF0081-070821	10569157001	755301	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	755301	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	755301	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	755301	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	755301	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	755301	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	755301	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	755301	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	755301	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	755301	FG	SWBF0084-070821	SWBF0090

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	7/8/2021	7/23/2021	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	7/8/2021	7/20/2021, 7/21/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___
Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y_X_ N___
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS problems.

QC Batch 755301, MS 4027607 and MSD 4027608 MoTR recovery <70%. The parent sample concentration was <4X the spike concentration. Associated MoTR sample results SWBF0081-SWBF0083 and SWBF0085-SWBF0087 were >MDL and qualified J-. The parent sample for the MS (SWBF0081) was collected downstream of a point source discharge and water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Sample SWBF0088 - SWBF0090 were collected upstream of the discharge and of a dissimilar matrix than the parent sample; therefore, MoTR results for these upstream samples were not qualified based on MS/MSD recovery.

QC Batch 757802, MS 4041091 CaDis recovery >130%. No associated CaDis results were qualified because the parent sample concentration was >4X the spike concentration.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/19/2021
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0081-070821	10569157001	757116	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	757116	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	757116	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	757116	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	757116	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	757116	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	757116	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	757116	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	757116	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	757116	FG	SWBF0084-070821	SWBF0090

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	7/8/2021	7/19/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/15/2021
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0081-070821	10569157001	756473	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	756473	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	756473	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	756473	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	756473	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	756473	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	756473	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	756473	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	756473	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	756473	FG	SWBF0084-070821	SWBF0090
Total Suspended Solids (TSS)					
SWBF0081-070821	10569157001	756475	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	756475	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	756475	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	756475	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	756475	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	756475	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	756475	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	756475	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	756475	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	756475	FG	SWBF0084-070821	SWBF0090

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	7/8/2021	7/15/2021	No
TSS	Aqueous	SM2540D	7/8/2021	7/15/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/20/2021
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0081-070821	10569157001	757191	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	757191	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	757191	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	757191	FB	SWBF0084-070821	SWBF0084
SWBF0089-070821	10569157009	757191	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	757191	FG	SWBF0084-070821	SWBF0090

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	7/8/2021	7/20/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/21/2021
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0081-070821	10569157001	733215	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	733215	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	733215	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	733215	FB	SWBF0084-070821	SWBF0084
SWBF0089-070821	10569157009	733216	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	733216	FG	SWBF0084-070821	SWBF0090

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	7/8/2021	7/21/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If an MSD was analyzed, and if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y___ N___ NA _X_
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y___ N_X_
If an MSD was analyzed, were any data flagged because of MS/MSD RPD problems?	Y___ N___ NA _X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
QC Batch 733216, MS 2942512 TKN recovery >110%. Associated TKN sample results were non-detect thus, no data were qualifed.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/22/2021
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0081-070821	10569157001	758164	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	758164	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	758164	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	758164	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	758164	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	758164	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	758164	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	758164	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	758164	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	758164	FG	SWBF0084-070821	SWBF0090

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	7/8/2021	7/22/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/16/2021
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0081-070821	10569157001	731841	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	731841	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	731841	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	731841	FB	SWBF0084-070821	SWBF0084
SWBF0089-070821	10569157009	731841	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	731841	FG	SWBF0084-070821	SWBF0090

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	7/8/2021	7/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

4. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS)	
Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/19/2021
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0081-070821	10569157001	757196	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	757196	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	757196	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	757196	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	757196	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	757196	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	757196	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	757196	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	757196	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	757196	FG	SWBF0084-070821	SWBF0090

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	7/8/2021	7/19/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 757196** , MS 4037601 MSD 4037602 SO4 recoveries <80%. No associated SO4 sample results were qualifed because the parent sample concentration was >4X the spike concentration.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	7/8/2021	**Analysis Date(s):**	7/22/2021
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0081-070821	10569157001	757766	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	757766	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	757766	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	757766	FB	SWBF0084-070821	SWBF0084
SWBF0089-070821	10569157009	757766	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	757766	FG	SWBF0084-070821	SWBF0090

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	7/8/2021	7/22/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10569157
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	7/8/2021		
Data Validator:	Michele Bay	**Validation Date:**	9/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0081-070821	10569157001	FG	SWBF0084-070821	SWBF0081
SWBF0082-070821	10569157002	FG-N	SWBF0084-070821	SWBF0082
SWBF0083-070821	10569157003	FG-D	SWBF0084-070821	SWBF0083
SWBF0084-070821	10569157004	FB	SWBF0084-070821	SWBF0084
SWBF0085-070821	10569157005	FG	SWBF0084-070821	SWBF0085
SWBF0086-070821	10569157006	FG	SWBF0084-070821	SWBF0086
SWBF0087-070821	10569157007	FG	SWBF0084-070821	SWBF0087
SWBF0088-070821	10569157008	FG	SWBF0084-070821	SWBF0088
SWBF0089-070821	10569157009	FG	SWBF0084-070821	SWBF0089
SWBF0090-070821	10569157010	FG	SWBF0084-070821	SWBF0090

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	7/8/2021	7/20/2021
Total Hg	Aqueous	EPA 245.1	7/8/2021	7/15/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	7/8/2021	7/23/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	7/8/2021	7/20/2021, 7/21/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	7/8/2021	7/19/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	7/8/2021	7/15/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	7/8/2021	7/15/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	7/8/2021	7/22/2021
Ammonia (NH3)	Aqueous	EPA 350.1	7/8/2021	7/20/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	7/8/2021	7/21/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	7/8/2021	7/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	7/8/2021	7/22/2021
Sulfate (SO4)	Aqueous	ASTM D516	7/8/2021	7/19/2021

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

Alkalinity, CaDis, Hardness, MgDis, NO2+NO3, PbDis, and PbTR was detected in FB SWBF0084 at concentrations <1.5X MDL thus, were not further assessed per TREC data validation guidelines.

DOC and FeDis were detected in FB SWBF0084 at concentrations >1.5X MDL. Associated DOC sample results SWBF0081-SWBF0083, SWBF089, and SWBF090 were >RL, but <10X FB value and were qualified J+. Associated FeDis sample results SWBF0081, SWBF0084-SWBF0087, and SWBF0089 were ≥MDL, but ≤RL and qualified UJ. FeDis sample results SWBF0088 and SWBF0090 were >RL, but <10X the FB value and were qualified J+. FeDis sample results SWBF0082 and SWBF0083 were non-detect and not qualified.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y_X_ N___

Were any data qualified because of FD results? Y___ N_X_

Field duplicate set SWBF0082/SWBF0083 total phosphorus RPD>20%, but the primary and duplicate sample results were <5X the RL and the absolute difference between primary and duplicate sample results was <RL thus, no associated data were qualified.

Additional Comments

DATA VALIDATION CHECKLIST FOR SDG 10573218

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4); Chloride (Cl-); Flouride (F)
Sample Date(s):	8/4/2021	**Analysis Date(s):**	
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

DATA VALIDATION CHECKLIST FOR SDG 10573218

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10573218001	SWBF0107-080421		FG	SWBF0110-080421	SWBF0107
10573218002	SWBF0108-080421		FG-N	SWBF0110-080421	SWBF0108
10573218003	SWBF0109-080421	Leave this column blank in this worksheet.	FG-D	SWBF0110-080421	SWBF0109
10573218004	SWBF0110-080421		FB	SWBF0110-080421	SWBF0110
10573218005	SWBF0111-080421		FG	SWBF0110-080421	SWBF0111
10573218006	SWBF0112-080421		FG	SWBF0110-080421	SWBF0112
10573218007	SWBF0113-080421		FG	SWBF0110-080421	SWBF0113
10573218008	SWBF0114-080421		FG	SWBF0110-080421	SWBF0114
10573218009	SWBF0115-080421		FG	SWBF0110-080421	SWBF0115
10573218010	SWBF0116-080421		FG	SWBF0110-080421	SWBF0116

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10573218001	SWBF0107-080421		FG	SWBF0110-080421	SWBF0107
10573218002	SWBF0108-080421		FG-N	SWBF0110-080421	SWBF0108
10573218003	SWBF0109-080421		FG-D	SWBF0110-080421	SWBF0109
10573218004	SWBF0110-080421		FB	SWBF0110-080421	SWBF0110
10573218006	SWBF0112-080421		FG	SWBF0110-080421	SWBF0112
10573218007	SWBF0113-080421		FG	SWBF0110-080421	SWBF0113
10573218008	SWBF0114-080421		FG	SWBF0110-080421	SWBF0114
10573218009	SWBF0115-080421		FG	SWBF0110-080421	SWBF0115
10573218010	SWBF0116-080421		FG	SWBF0110-080421	SWBF0116

DATA VALIDATION SUMMARY FOR SDG 10573218

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	8/4/2021		
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0107-080421	10573218001	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	FG	SWBF0110-080421	SWBF0116

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	8/4/2021	8/12/2021
Total Hg	Aqueous	EPA 245.1	8/4/2021	8/11/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	8/4/2021	8/16/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/4/2021	8/17/21, 8/20/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/4/2021	8/17/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/4/2021	8/10/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/4/2021	8/10/2021, 8/11/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/4/2021	8/6/2021
Ammonia (NH3)	Aqueous	EPA 350.1	8/4/2021	8/15/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	8/4/2021	8/17/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	8/4/2021	8/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	8/4/2021	8/18/2021, 8/19/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/4/2021	8/19/2021, 8/20/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	200	40	0
Percentage		79%	83%	17%	0%

Analyses of this sample set resulted in 240 natural data points. Of these, 200 (83%) had no quality control deficiencies and are defined as enforcement quality while, 40 (17%) had quality control deficiencies and are defined as screening quality. Of the 40 qualified data points; nine were coded "MS" due to laboratory accuracy criteria not being met, ten were coded "FB" due to field accuracy criteria not being met, and 21 were coded "FD" due to field precision criteria not being met. All anticipated data was collected thus, completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/12/2021, 8/11/2021
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0107-080421	10573218001	762746	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	762746	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	762746	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	762746	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	762746	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	762746	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	762746	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	762746	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	762746	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	762746	FG	SWBF0110-080421	SWBF0116
Total Mercury					
SWBF0107-080421	10573218001	762416	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	762416	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	762416	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	762416	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	762416	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	762416	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	762416	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	762416	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	762416	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	762416	FG	SWBF0110-080421	SWBF0116

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	8/4/2021	8/12/2021	No
Total Hg	Aqueous	EPA 245.1	8/4/2021	8/11/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/16/2021, 8/17/21, 8/20/21
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWBF0107-080421	10573218001	762296	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	762296	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	762296	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	762296	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	762296	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	762296	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	762296	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	762296	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	762296	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	762296	FG	SWBF0110-080421	SWBF0116
Total Metals					
SWBF0107-080421	10573218001	762298	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	762298	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	762298	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	762298	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	762298	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	762298	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	762298	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	762298	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	762298	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	762298	FG	SWBF0110-080421	SWBF0116

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	8/4/2021	8/16/2021	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/4/2021	8/17/21, 8/20/21	No

Describe corrective actions taken because of holding time problems.

0

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 762296, *MSD 4064205 CaDis recovery >130%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentration.*

QC Batch 762298, *MS 4064213 MSD 4064214 MoTR recoveries <70%. Associated MoTR results for SWBF0107-SWBF0109 and SWBF0111-SWBF0113 were ≥MDL and qualified J-. The parent sample for the MS/MSD, SWBF0107, along with samples SWBF0108, SWBF0109, and SWBF0111-SWBF0113 were collected downstream of a point source discharge; while, samples SWBF0114-SWBF0116 were collected upstream of the discharge. Water chemisry downstream of the discharge differs from water chemistry upstream of the discharge; therefore, MoTR results for SWBF0114-SWBF0116 were not qualified based on the MS/MSD recoveries.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/17/2021
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0107-080421	10573218001	763956	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	763956	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	763956	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	763956	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	763956	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	763956	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	763956	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	763956	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	763956	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	763956	FG	SWBF0110-080421	SWBF0116

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/4/2021	8/17/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/10/2021, 8/11/2021
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0107-080421	10573218001	762331	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	762331	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	762331	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	762331	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	762331	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	762331	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	762331	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	762331	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	762331	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	762331	FG	SWBF0110-080421	SWBF0116
Total Suspended Solids (TSS)					
SWBF0107-080421	10573218001	762333	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	762870	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	762333	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	762333	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	762333	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	762333	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	762333	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	762333	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	762333	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	762333	FG	SWBF0110-080421	SWBF0116

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	8/4/2021	8/10/2021	No
TSS	Aqueous	SM2540D	8/4/2021	8/10/2021, 8/11/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

***QC Batch 762331** , parent sample 10573183001/laboratory duplicate sample 4064317 TDS RPD>10%. The parent sample was not project associated so nothing is known of sample collection and handling, nor of the reliabiltiy of the result. Therefore, no TDS results were qualified based on laboratory precision.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/15/2021
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0107-080421	10573218001	763545	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	763545	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	763545	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	763545	FB	SWBF0110-080421	SWBF0110
SWBF0115-080421	10573218009	763546	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	763546	FG	SWBF0110-080421	SWBF0116

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	8/4/2021	8/15/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/17/2021
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0107-080421	10573218001	738102	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	738102	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	738102	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	738102	FB	SWBF0110-080421	SWBF0110
SWBF0115-080421	10573218009	738102	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	738102	FG	SWBF0110-080421	SWBF0116

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	8/4/2021	8/17/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS. Y_X_ N___

If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

QC Batch 738102, parent sample 60377214001/laboratory duplicate 2959340 RPD >10%, but the parent sample was not project associated and matrix similarity could not be determined thus, no associated TKN results were qualified.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples? Y_X_ N___

Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

Y___ N___ NA _X_

If an MSD was analyzed, and if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?

Were any data flagged because of MS (or MSD if analyzed) recovery problems? Y_X_ N___

If an MSD was analyzed, were any data flagged because of MS/MSD RPD problems? Y___ N___ NA _X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 738102** , MS 2959341 TKN recovery <90%. The parent sample SWBF0110 was the field blank thus, all samples within this QC Batch were qualified. TKN sample results SWBF0108-SWBF0110, SWBF0115, and SWBF0116 were non-detect and qualified UJ, and TKN sample result SWBF0107 was ≥MDL and qualified J-.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/6/2021
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0107-080421	10573218001	761844	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	761844	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	761844	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	761844	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	761844	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	761844	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	761844	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	761844	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	761844	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	761844	FG	SWBF0110-080421	SWBF0116

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/4/2021	8/6/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/16/2021
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0107-080421	10573218001	738148	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	738148	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	738148	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	738148	FB	SWBF0110-080421	SWBF0110
SWBF0115-080421	10573218009	738148	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	738148	FG	SWBF0110-080421	SWBF0116

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	8/4/2021	8/16/2021	No

Describe corrective actions taken because of holding time problems.

0

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

4. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS)	
Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/19/2021, 8/20/2021
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0107-080421	10573218001	764346	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	764346	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	764346	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	764346	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	764346	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	764346	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	764346	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	764346	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	764346	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	764346	FG	SWBF0110-080421	SWBF0116

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	8/4/2021	8/19/2021, 8/20/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	8/4/2021	**Analysis Date(s):**	8/18/2021, 8/19/2021
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0107-080421	10573218001	764023	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	764023	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	764023	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	764333	FB	SWBF0110-080421	SWBF0110
SWBF0115-080421	10573218009	764333	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	764333	FG	SWBF0110-080421	SWBF0116

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	8/4/2021	8/18/2021, 8/19/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y___ N_X_
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 764023, MS 4073097 recovery >120% and MS 4073097/MSD 4073098 RPD >30%. The parent sample was not project associated and matrix similarity could not be determined thus, no associated total P results were qualified base on either RPD or MS Recovery criteria.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10573218
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	8/4/2021		
Data Validator:	Michele Bay	**Validation Date:**	9/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0107-080421	10573218001	FG	SWBF0110-080421	SWBF0107
SWBF0108-080421	10573218002	FG-N	SWBF0110-080421	SWBF0108
SWBF0109-080421	10573218003	FG-D	SWBF0110-080421	SWBF0109
SWBF0110-080421	10573218004	FB	SWBF0110-080421	SWBF0110
SWBF0111-080421	10573218005	FG	SWBF0110-080421	SWBF0111
SWBF0112-080421	10573218006	FG	SWBF0110-080421	SWBF0112
SWBF0113-080421	10573218007	FG	SWBF0110-080421	SWBF0113
SWBF0114-080421	10573218008	FG	SWBF0110-080421	SWBF0114
SWBF0115-080421	10573218009	FG	SWBF0110-080421	SWBF0115
SWBF0116-080421	10573218010	FG	SWBF0110-080421	SWBF0116

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	8/4/2021	8/12/2021
Total Hg	Aqueous	EPA 245.1	8/4/2021	8/11/2021
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	8/4/2021	8/16/2021
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/4/2021	8/17/21, 8/20/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/4/2021	8/17/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/4/2021	8/10/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/4/2021	8/10/2021, 8/11/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/4/2021	8/6/2021
Ammonia (NH3)	Aqueous	EPA 350.1	8/4/2021	8/15/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	8/4/2021	8/17/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	8/4/2021	8/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	8/4/2021	8/18/2021, 8/19/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/4/2021	8/19/2021, 8/20/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

CaDis and TDS were detected in FB SWBF0110 at concentrations ≤1.5X MDL thus, were not further assessed per TREC data validation guidelines. DOC and PbTR were detected in FB SWBF0110 at concentrations ≥1.5X MDL. Associated DOC sample results SWBF0107-SWBF0109, SWBF0115, and SWBF0116 were >RL, but ≤10X the FB value and were qualified J+ . Associated PbTR sample results SWBF0108, SWBF0111, and SWBF0113-SWBF0115 were >RL, but ≤10X FB value and qualified J+. Associated PbTR sample results SWBF0116 was ≥MDL, but ≤RL and qualified UJ. Associated PbTR sample results SWBF0107, SWBF0109, and SWBF0112 were >10X the FB value and were not qualified.

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

When assessing field precision, matrix similarity is considering for all analyses other than TDS and TSS. Matrix similarity is not considered for gravimetric analyses since these analyses are not prone to chemical interferences. The field duplicate set, along with samples SWBF0107, SWBF0111-SWBF0113, were collected downstream of a point source discharge. Water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Thus, upstream and downstream samples are judged to have differing matrices and results from samples collected upstream of the discharge were not qualified based on field precision.

Field duplicate set SWBF0108/SWBF0109 CuTR, TDS, and TSS RPDs>20%. For CuTR, the duplicate sample was <5X the RL and the absolute difference between primary and duplicate sample results was >RL. Associated CuTR results for SWBF0107-SWBF0109 and SWBF0111-SWBF0113 were ≥MDL and qualifed J. For TDS, both the primary and duplicate sample results were >5X RL and the RPD was 27.9%. Associated TDS sample results SWBF0107-SWBF0109 and SWBF0111-SWBF0116 were ≥MDL and qualified J. For TSS, both primary and duplicate sample results were <5X the RL but the absolute difference between primary and duplicate sample results was >RL. Associated TSS sample results SWBF0107, SWBF0108, and SWBF0111-SWBF0116 were non-detect and qualified UJ. TSS sample results SWBF0109 was ≥MDL and qualified J.

Additional Comments

DATA VALIDATION CHECKLIST FOR SDG 10577494

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4); Chloride (Cl-); Flouride (F)
Sample Date(s):	9/1/2021	**Analysis Date(s):**	
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

DATA VALIDATION CHECKLIST FOR SDG 10577494

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10577494001	SWBF0133-090121		FG	SWBF0136-090121	SWBF0133
10577494002	SWBF0134-090121		FG-N	SWBF0136-090121	SWBF0134
10577494003	SWBF0135-090121	Leave this column blank in this worksheet.	FG-D	SWBF0136-090121	SWBF0135
10577494004	SWBF0136-090121		FB	SWBF0136-090121	SWBF0136
10577494005	SWBF0137-090121		FG	SWBF0136-090121	SWBF0137
10577494006	SWBF0138-090121		FG	SWBF0136-090121	SWBF0138
10577494007	SWBF0139-090121		FG	SWBF0136-090121	SWBF0139
10577494008	SWBF0140-090121		FG	SWBF0136-090121	SWBF0140
10577494009	SWBF0141-090121		FG	SWBF0136-090121	SWBF0141
10577494010	SWBF0142-090121		FG	SWBF0136-090121	SWBF0142
Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10577494001	SWBF0133-090121		FG	SWBF0136-090121	SWBF0133
10577494002	SWBF0134-090121		FG-N	SWBF0136-090121	SWBF0134
10577494003	SWBF0135-090121		FG-D	SWBF0136-090121	SWBF0135
10577494004	SWBF0136-090121		FB	SWBF0136-090121	SWBF0136
10577494006	SWBF0138-090121		FG	SWBF0136-090121	SWBF0138
10577494007	SWBF0139-090121		FG	SWBF0136-090121	SWBF0139
10577494008	SWBF0140-090121		FG	SWBF0136-090121	SWBF0140
10577494009	SWBF0141-090121		FG	SWBF0136-090121	SWBF0141
10577494010	SWBF0142-090121		FG	SWBF0136-090121	SWBF0142

DATA VALIDATION SUMMARY FOR SDG

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	9/1/2021		
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0133-090121	10577494001	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	FG	SWBF0136-090121	SWBF0142

DATA VALIDATION SUMMARY FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	9/1/2021	9/15/2021
Total Hg	Aqueous	EPA 245.1	9/1/2021	9/14/21
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	9/1/2021	9/20/21
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	9/1/2021	9/20/2021, 9/21/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	9/1/2021	9/14/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	9/1/2021	9/5/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	9/1/2021	9/7/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	9/1/2021	9/10/2021
Ammonia (NH3)	Aqueous	EPA 350.1	9/1/2021	9/19/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	9/1/2021	9/20/2021, 9/29/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	9/1/2021	9/15/2021, 9/18/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	9/1/2021	9/15/2021
Sulfate (SO4)	Aqueous	ASTM D516	9/1/2021	9/16/2021, 9/20/2021, 12/1/21 (SWR50133)
Were Level A field documentation and QA/QC practices met for this data set?				Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?				Y_X_ N___

DATA VALIDATION SUMMARY FOR SDG

Summary					
	Data Points	**Natural Data Points**	**Enforcement Quality (E)**	**Screening Level (S)**	**Unusable (R)**
Total	304	240	233	6	1
Percentage		79%	97%	3%	0%

Analyses of this sample set resulted in 240 natural sample data points. Of these, 233 (97%) had no quality control deficiencies and are defined as enforcement quality, six (3%) were defined as screening quality, and one was rejected. Of the six qualified data points; one was coded "MS" due to laboratory accuracy criteria not being met, one was coded "RPD" due to laboratory precision criteria not being met, and four were coded "FB" due to field accuracy criteria not being met. One data point was rejected because analysis for the reported result was performed more than 2X past the method holding time. All anticipated data was collected; but, one data point was rejecting yielding 99.6% completeness.

The rejected data point was the sulfate result for SWBF0133. The original sulfate analysis for this sample was on 9/16/21. The reported sulfate result for the 9/16/21 analysis was 29 mg/L, which is not comparable to historical results or upstream samples. Re-analysis was requested on 11/29/21 when a data review caught the irregularity. Re-analysis yielded a result of 690 mg/L; thus, it is supspected that a dilution error was made during the original analysis. Although the original analysis was within holding time, it would have been rejected based on comparability.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/15/2021, 9/14/21
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0133-090121	10577494001	770040	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	770040	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	770040	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	770040	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	770040	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	770040	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	770040	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	770040	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	770040	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	770040	FG	SWBF0136-090121	SWBF0142
Total Mercury					
SWBF0133-090121	10577494001	769437	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	769437	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	769437	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	769437	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	769437	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	769437	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	769437	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	769437	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	769437	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	769437	FG	SWBF0136-090121	SWBF0142

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	9/1/2021	9/15/2021	No
Total Hg	Aqueous	EPA 245.1	9/1/2021	9/14/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/20/2021, 9/21/2021
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWBF0133-090121	10577494001	768647	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	768647	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	768647	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	768647	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	768647	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	768647	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	768647	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	768647	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	768647	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	768647	FG	SWBF0136-090121	SWBF0142

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Total Metals					
SWBF0133-090121	10577494001	768648	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	768648	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	768648	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	768648	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	768648	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	768648	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	768648	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	768648	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	768648	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	768648	FG	SWBF0136-090121	SWBF0142

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	9/1/2021	9/20/21	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	9/1/2021	9/20/2021, 9/21/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 768647, MS 4096076 CaDis recovery >130%. MSD 4096077 CaDis recovery >130% and MgDis recovery <70%. No associated CaDis, nor MgDis results were qualified because the parent sample concentrations were >4X the spike concentrations.

QC Batch 768647, MS 4097779 CaDis recovery >130%, MSD 4100736 CaDis recovery >130%, but the parent sample concentrations were >4X the spike concentrations, nor was the parent sample project associated. Therefore, no associated data were qualified.

QC Batch 768648, MS 4096080 and MSD 4096081 MoTR recoveries >130%. No associated MoTR results were qualified because the parent sample concentrations were ≥4X the spike concentrations.

QC Batch 768648, MS 4100737 MoTR recovery >130%, but the parent sample concentrations were >4X the spike concentrations, nor was the parent sample project associated. Therefore, no associated data were qualified.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/14/2021
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0133-090121	10577494001	769987	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	769987	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	769987	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	769987	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	769987	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	769987	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	769987	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	769987	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	769987	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	769987	FG	SWBF0136-090121	SWBF0142

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	9/1/2021	9/14/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/5/2021, 9/7/2021
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWBF0133-090121	10577494001	768272	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	768272	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	768272	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	768272	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	768272	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	768272	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	768272	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	768272	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	768272	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	768272	FG	SWBF0136-090121	SWBF0142
Total Suspended Solids (TSS)					
SWBF0133-090121	10577494001	768275	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	768275	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	768275	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	768275	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	768276	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	768276	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	768276	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	768276	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	768276	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	768276	FG	SWBF0136-090121	SWBF0142

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	9/1/2021	9/5/2021	No
TSS	Aqueous	SM2540D	9/1/2021	9/7/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 768272 *, TDS was detected in MB 4094468 at a concentration ≤1.5X the MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y_____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/19/2021
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0133-090121	10577494001	771079	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	771079	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	771079	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	771079	FB	SWBF0136-090121	SWBF0136
SWBF0141-090121	10577494009	771079	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	771079	FG	SWBF0136-090121	SWBF0142

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	9/1/2021	9/19/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/20/2021, 9/29/2021
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0133-090121	10577494001	746151	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	744071	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	744071	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	744071	FB	SWBF0136-090121	SWBF0136
SWBF0141-090121	10577494009	744071	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	744071	FG	SWBF0136-090121	SWBF0142

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	9/1/2021	9/20/2021, 9/29/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_

Describe corrective actions taken because of LDS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If an MSD was analyzed, and if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y___ N_X_
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y_X_ N___
If an MSD was analyzed, were any data flagged because of MS/MSD RPD problems?	Y_X_ N___

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 744071** , MS 2980679 recovery <90%. Associated TKN results in samples SWBF0134 and SWBF0135 were non-detect and qualified UJ. The parent sample for the MS (SWBF0133 in QC batch 746151) was collected downstream of a point source discharge. Water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Samples SWBF0141 and SWBF0142 were collected upstream of the discharge, and considered of a dissimilar matrix from the parent sample. Thus TKN results in the upstream samples were not qualified.*

***QC Batch 746151** , MS 2988755 recovery >110%. The TKN result for SWBF0133 was non-detect and not qualified based on the high MS recovery. The RPD between MS 2988755 and MSD 2988756 was >10% and the MS/MSD results were >5X the RL. The TKN result for sample SWBF0133 was non-detect and qualified UJ based on laboratory precision.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/10/2021
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0133-090121	10577494001	769329	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	769329	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	769329	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	769329	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	769329	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	769329	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	769329	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	769329	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	769329	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	769329	FG	SWBF0136-090121	SWBF0142

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	9/1/2021	9/10/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/15/2021, 9/18/2021
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0133-090121	10577494001	743558	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	744152	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	744152	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	744152	FB	SWBF0136-090121	SWBF0136
SWBF0141-090121	10577494009	744152	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	744152	FG	SWBF0136-090121	SWBF0142

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	9/1/2021	9/15/2021, 9/18/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

4. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS)	
Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y___ N_X_
Were any data flagged because of MS recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	
QC Batch 744152, MS 2981263 and MSD 2988738 RPD>25% and the MS/MSD results were >5X the RL, but the parent sample was not project associated and matrix similarity could not be determined. Thus, no associated data were qualified.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/16/2021, 9/20/2021, 12/1/21 (SWBF0133)
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0133-090121	10577494001	786625	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	770605	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	770605	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	771229	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	770605	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	770605	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	770618	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	770618	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	770618	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	770618	FG	SWBF0136-090121	SWBF0142

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	9/1/2021	9/16/2021, 9/20/2021, 12/1/21 (SWBF0133)	Yes

Describe corrective actions taken because of holding time problems.

Sulfate analysis for sample SWBF0133 was re-analyzed 76 days after the sample was collected. Since the re-analysis was performed more than 2X past the 28-day method holding time, the sulfate result for SWBF0133 was rejected. See the final section of this checklist for an explanation of why the sample was re-analyzed.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were theLCS/LCSD within control window of 80-120% recovery? Y_X_ N___

Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 770605**, MS 4105601 MSD 4105602 recoveries >120%. The parent sample concentration was >4X the spike concentration, so recovery criteria are waived.*

***QC Batch 770618**, MS 4105671 recovery <80%; however, the parent sample concentration was >4X the spike concentration so no qualifiers were applied.*

***QC batch 786625**, MSD 4187504 recovery >120%. The parent sample for this MS/MSD was not project associated, so matrix similarity cannot be assessed. Therefore, no qualifiers were applied based on this MSD recovery.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

Sulfate analysis for sample SWBF0133 was originally performed on 9/16/21. The reported sulfate result for the 9/16/21 analysis was 29 mg/L, which is not comparable to historical results or upstream samples. Re-analysis was requested on 11/29/21 when a data review caught the irregularity. Re-analysis yielded a result of 690 mg/L; thus, it is supspected that a dilution error was made during the original analysis. The re-analysis was performed more than 2X past the method holding time, so the sulfate result for SWBF0133 was rejected. Note that the original result would have been rejected based on comparability.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	9/1/2021	**Analysis Date(s):**	9/15/2021
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0133-090121	10577494001	769961	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	769961	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	769961	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	769961	FB	SWBF0136-090121	SWBF0136
SWBF0141-090121	10577494009	769963	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	769963	FG	SWBF0136-090121	SWBF0142

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	9/1/2021	9/15/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10577494
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	9/1/2021		
Data Validator:	Michele Bay	**Validation Date:**	10/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0133-090121	10577494001	FG	SWBF0136-090121	SWBF0133
SWBF0134-090121	10577494002	FG-N	SWBF0136-090121	SWBF0134
SWBF0135-090121	10577494003	FG-D	SWBF0136-090121	SWBF0135
SWBF0136-090121	10577494004	FB	SWBF0136-090121	SWBF0136
SWBF0137-090121	10577494005	FG	SWBF0136-090121	SWBF0137
SWBF0138-090121	10577494006	FG	SWBF0136-090121	SWBF0138
SWBF0139-090121	10577494007	FG	SWBF0136-090121	SWBF0139
SWBF0140-090121	10577494008	FG	SWBF0136-090121	SWBF0140
SWBF0141-090121	10577494009	FG	SWBF0136-090121	SWBF0141
SWBF0142-090121	10577494010	FG	SWBF0136-090121	SWBF0142

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	9/1/2021	9/15/2021
Total Hg	Aqueous	EPA 245.1	9/1/2021	9/14/21
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	9/1/2021	9/20/21
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	9/1/2021	9/20/2021, 9/21/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	9/1/2021	9/14/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	9/1/2021	9/5/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	9/1/2021	9/7/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	9/1/2021	9/10/2021
Ammonia (NH3)	Aqueous	EPA 350.1	9/1/2021	9/19/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	9/1/2021	9/20/2021, 9/29/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	9/1/2021	9/15/2021, 9/18/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	9/1/2021	9/15/2021
Sulfate (SO4)	Aqueous	ASTM D516	9/1/2021	9/16/2021, 9/20/2021, 12/1/21 (SWBF0133)

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

MgDis, NO2+NO3, and PbTR were detected in FB SWBF0136 at concentrations ≤1.5X the MDL thus, were not further assessed per TREC data validation guidelines.

CaDis, DOC, and Hardness were detected in FB SWBF0136 at concentrations >1.5X the MDL. Associated CaDis and Hardness results were >10X the FB value and were not qualified. Associated DOC results for SWBF0133-SWBF0135, SWBF0141, and SWBF0142 were >RL, but ≤10X the FB value and were qualified J+.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y_X_ N___

Were any data qualified because of FD results? Y___ N_X_

Field duplicate set SWBF0134/SWBF0135 CdTR RPD>20%, but the primary and duplicate sample results were <5X the RL thus, no associated data were qualified.

Additional Comments

DATA VALIDATION CHECKLIST FOR SDG 10584279

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as $CaCO_3$; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO_2/NO_3); Ammonia (NH_3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO_4); Chloride (Cl^-); Flouride (F)
Sample Date(s):	10/18/2021	**Analysis Date(s):**	
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

DATA VALIDATION CHECKLIST FOR SDG 10584279

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10584279001	SWBF0163-101821		FG	SWBF0166-101821	10584279
10584279002	SWBF0164-101821		FG-N	SWBF0166-101821	10584279
10584279003	SWBF0165-101821	Leave this column blank in this worksheet.	FG-D	SWBF0166-101821	10584279
10584279004	SWBF0166-101821		FB	S	10584279
10584279005	SWBF0167-101821		FG	S	10584279
10584279006	SWBF0168-101821		FG	S	10584279
10584279007	SWBF0169-101821		FG	S	10584279
10584279008	SWBF0170-101821		FG	SWBF0166-101821	10584279
10584279009	SWBF0171-101821		FG	SWBF0166-101821	10584279
10584279010	SWBF0172-101821		FG	SWBF0166-101821	10584279

Put the field ID of the blank in this column.

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses				
Lab Sample ID	**Field Sample ID**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10584279001	SWBF0163-101821	FG	SWBF0166-101821	10584279
10584279002	SWBF0164-101821	FG-N	SWBF0166-101821	10584279
10584279003	SWBF0165-101821	FG-D	SWBF0166-101821	10584279
10584279004	SWBF0166-101821	FB	SWBF0166-101821	10584279
10584279006	SWBF0168-101821	FG	SWBF0166-101821	10584279
10584279007	SWBF0169-101821	FG	SWBF0166-101821	10584279
10584279008	SWBF0170-101821	FG	SWBF0166-101821	10584279
10584279009	SWBF0171-101821	FG	SWBF0166-101821	10584279
10584279010	SWBF0172-101821	FG	SWBF0166-101821	10584279

DATA VALIDATION SUMMARY FOR SDG

DATA VALIDATION SUMMARY FOR SDG 10584279

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	10/18/2021		
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0163-101821	10584279001	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	FG	SWBF0166-101821	SWBF0172

DATA VALIDATION SUMMARY FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	10/18/2021	10/29/21
Total Hg	Aqueous	EPA 245.1	10/18/2021	10/29/21
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	10/18/2021	11/3/21, 11/4/21, 11/9/21
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	10/18/2021	11/3/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	10/18/2021	10/30/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	10/18/2021	10/25/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	10/18/2021	10/25/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	10/18/2021	11/4/21
Ammonia (NH3)	Aqueous	EPA 350.1	10/18/2021	10/25/21
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	10/18/2021	10/28/21
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	10/18/2021	10/27/21
Total Phosphorus (Phos)	Aqueous	SM4500P-F	10/18/2021	11/3/21
Sulfate (SO4)	Aqueous	ASTM D516	10/18/2021	11/5/21

Were Level A field documentation and QA/QC practices met for this data set?	Y_X _ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X _ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	224	16	
Percentage		79%	93%	7%	0%

Analysis of this data set resulted in 240 natural sample data points. Of these, 224 (93%) had no quality control deficiencies and were assigned enforcement quality. Sixteen (7%) data points were assigned screening quality. Five data points were qualified for MS/MSD recoveries which did not meet acceptance criteria (lab accuracy) and coded "MS". Eleven data points were qualified for field blank detections (field accuracy) and coded "FB". All anticipated data were collected and no data were rejected, making the data set 100% complete.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	10/18/2021	**Analysis Date(s):**	10/29/21, 10/29/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0163-101821	10584279001	779788	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	779788	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	779788	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	779788	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	779788	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	779788	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	779788	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	779788	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	779788	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	779788	FG	SWBF0166-101821	SWBF0172
Total Mercury					
SWBF0163-101821	10584279001	779787	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	779787	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	779787	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	779787	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	779787	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	779787	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	779787	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	779787	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	779787	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	779787	FG	SWBF0166-101821	SWBF0172

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	10/18/2021	10/29/21	No
Total Hg	Aqueous	EPA 245.1	10/18/2021	10/29/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	10/18/2021	**Analysis Date(s):**	11/3/21, 11/4/21, 11/9/21, 11/3/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWBF0163-101821	10584279001	779812	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	779812	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	779812	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	779812	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	779812	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	779812	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	779812	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	779812	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	779812	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	779812	FG	SWBF0166-101821	SWBF0172
Total Metals					
SWBF0163-101821	10584279001	780047	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	780047	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	780047	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	780047	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	780047	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	780047	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	780047	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	780047	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	780047	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	780047	FG	SWBF0166-101821	SWBF0172

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	10/18/2021	11/3/21, 11/4/21, 11/9/21	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	10/18/2021	11/3/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___
Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y_X_ N___
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS problems.

QC batch 779812 *, MS 4153137 CaDis recovery <70%. MSD 4153138 CaDis recovery >130%. The parent sample CaDis concentration was >4X the spike concentration, so recovery criteria was waived for CaDis. MSD 4153138 Mo recovery >130% and parent sample concentration was <4X the spike concentration. The parent sample for the MS/MSD (SWBF0163) was collected downstream of a point source discharge. Water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Samples SWBF0163-SWBF0165 and SWBF0167-SWBF0169 were collected downstream of the discharge and considered to be of a similar matrix to the parent sample. MoDis results for SWBF0163-SWBF0165 and SWBF0167-SWBF0169 were > the MDL and qualified J+. MoDis results for upstream samples SWBF0170-SWBF0172, and the FB SWBF0166, were not qualified because they are considered to be of a differiing matrix.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	10/18/2021	**Analysis Date(s):**	10/30/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0163-101821	10584279001	780549	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	780549	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	780549	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	780549	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	780549	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	780549	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	780549	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	780549	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	780549	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	780549	FG	SWBF0166-101821	SWBF0172

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	10/18/2021	10/30/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	10/18/2021	**Analysis Date(s):**	10/25/21, 10/25/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0163-101821	10584279001	779048	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	779048	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	779048	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	779048	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	779048	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	779048	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	779048	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	779048	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	779048	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	779048	FG	SWBF0166-101821	SWBF0172
Total Suspended Solids (TSS)					
SWBF0163-101821	10584279001	779044	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	779044	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	779044	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	779044	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	779044	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	779044	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	779045	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	779045	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	779045	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	779045	FG	SWBF0166-101821	SWBF0172

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	10/18/2021	10/25/21	No
TSS	Aqueous	SM2540D	10/18/2021	10/25/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

***TSS QC batch 779045**, laboratory duplicate 4149198 had >10% RPD between the parent and duplicate sample TSS results. The parent sample was not project associated, so nothing is known of sample collection and handling, nor the reliability of the result. Therefore, no qualifiers were applied based on this laboratory duplicate RPD.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	10/18/2021	**Analysis Date(s):**	10/25/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0163-101821	10584279001	779085	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	779085	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	779085	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	779085	FB	SWBF0166-101821	SWBF0166
SWBF0171-101821	10584279009	779085	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	779085	FG	SWBF0166-101821	SWBF0172

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	10/18/2021	10/25/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC batch 779085, MB 4149390 had a detection <1.5X the MDL. Blank detections ≤ 1.5X the MDL are not further assessed per TREC data validation

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC batch 779085**, MS 4149394 ammonia recovery was >110%. The parent sample for the MS (SWBF0163) was collected downstream of a point source discharge. Water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Samples SWBF0163-SWBF0165 were collected downstream of the discharge and considered to be of a similar matrix to the parent sample. NH3 results for these samples were non-detect, so were not qualified. Upstream samples SWBF0171 and SWBF0172, and the FB SWBF0166, are considered to be of a differiing matrix (and NH3 results were also non-detect), so NH3 results for these samples were not assessed for the high MS recovery.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	10/18/2021	**Analysis Date(s):**	10/28/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0163-101821	10584279001	752261	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	752261	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	752261	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	752261	FB	SWBF0166-101821	SWBF0166
SWBF0171-101821	10584279009	752262	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	752262	FG	SWBF0166-101821	SWBF0172

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	10/18/2021	10/28/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If an MSD was analyzed and if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y___ N_X_
If an MSD was analyzed, were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC batch 752262**, MS 3011321 had >110% recovery. The parent sample for the MS (SWBF0168) was submitted with this SDG but TKN analysis was performed under a separate project than BPSOU Interim Site-Wide Surface Water Monitoring. Thus the TKN result for SWBF0168 is not reported with this data set, but the sample matrix is known. SWBF0168 was collected downstream of a point source discharge. Water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. The two Site-Wide surface water monitoring associated samples in QC batch 752262 were collected upstream of the point source discharge and are considered to be of a differing matrix than the MS parent sample; and, the results were non-detect. Thus, no TKN results were qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	10/18/2021	**Analysis Date(s):**	11/4/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0163-101821	10584279001	781568	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	781568	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	781568	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	781568	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	781568	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	781568	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	781568	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	781568	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	781568	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	781568	FG	SWBF0166-101821	SWBF0172

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	10/18/2021	11/4/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

***QC batch 781568**, MB 4161947 had a detection <1.5X the MDL; thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	10/18/2021	**Analysis Date(s):**	10/27/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0163-101821	10584279001	752274	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	752274	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	752274	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	752274	FB	SWBF0166-101821	SWBF0166
SWBF0171-101821	10584279009	752274	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	752274	FG	SWBF0166-101821	SWBF0172

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	10/18/2021	10/27/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

4. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	

4. Matrix Spike (MS)

Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	10/18/2021	**Analysis Date(s):**	11/5/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0163-101821	10584279001	779897	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	779897	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	779897	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	779897	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	779897	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	779897	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	779897	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	779897	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	779897	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	779897	FG	SWBF0166-101821	SWBF0172

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	10/18/2021	11/5/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
***QC batch 779897** , MS 4153623 and MSD 4153624 recoveries <80%. The parent sample concentration was >4X the spike concentration, so recovery criteria were waived.*	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	10/18/2021	**Analysis Date(s):**	11/3/21
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0163-101821	10584279001	779906	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	779906	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	779906	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	779907	FB	SWBF0166-101821	SWBF0166
SWBF0171-101821	10584279009	779907	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	779907	FG	SWBF0166-101821	SWBF0172

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	10/18/2021	11/3/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10584279
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	10/18/2021		
Data Validator:	Tina Donovan	**Validation Date:**	12/28/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0163-101821	10584279001	FG	SWBF0166-101821	SWBF0163
SWBF0164-101821	10584279002	FG-N	SWBF0166-101821	SWBF0164
SWBF0165-101821	10584279003	FG-D	SWBF0166-101821	SWBF0165
SWBF0166-101821	10584279004	FB	SWBF0166-101821	SWBF0166
SWBF0167-101821	10584279005	FG	SWBF0166-101821	SWBF0167
SWBF0168-101821	10584279006	FG	SWBF0166-101821	SWBF0168
SWBF0169-101821	10584279007	FG	SWBF0166-101821	SWBF0169
SWBF0170-101821	10584279008	FG	SWBF0166-101821	SWBF0170
SWBF0171-101821	10584279009	FG	SWBF0166-101821	SWBF0171
SWBF0172-101821	10584279010	FG	SWBF0166-101821	SWBF0172

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	10/18/2021	10/29/21
Total Hg	Aqueous	EPA 245.1	10/18/2021	10/29/21
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	10/18/2021	11/3/21, 11/4/21, 11/9/21
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	10/18/2021	11/3/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	10/18/2021	10/30/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	10/18/2021	10/25/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	10/18/2021	10/25/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	10/18/2021	11/4/21
Ammonia (NH3)	Aqueous	EPA 350.1	10/18/2021	10/25/21
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	10/18/2021	10/28/21
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	10/18/2021	10/27/21
Total Phosphorus (Phos)	Aqueous	SM4500P-F	10/18/2021	11/3/21
Sulfate (SO4)	Aqueous	ASTM D516	10/18/2021	11/5/21

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

FB SWBF0166 had detections of MgDis and nitrate + nitrite at concentrations <1.5X the MDL, which were not further assessed per TREC data validation guidelines.

FB SWBF0166 had DOC and PbTR detections >1.5X the MDL. DOC results for SWBF0163-SWBF0165, SWBF0171, and SWBF0172 were > the RL but <10X the FB detection and qualified J+. The PbTR result for SWBF0167 was >10X the FB detection, therefore not qualified. PbTR results for SWBF0163-SWBF0165 and SWBF0168-SWBF0172 were > the RL but <10X the FB detection and qualified J+.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y_X_ N___

Were any data qualified because of FD results? Y___ N_X_

Field duplicate set SWBF0164/SWBF0165 had an RPD >20% for TKN results. Both the primary and duplicate sample TKN results were <5X the RL and the difference between the results was < the RL; thus, precision criteria was met for TKN.

Additional Comments

DATA VALIDATION CHECKLIST FOR SDG 10585797

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as $CaCO_3$; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO_2/NO_3); Ammonia (NH_3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO_4); Chloride (Cl^-); Flouride (F)
Sample Date(s):	11/1/2021	**Analysis Date(s):**	
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

DATA VALIDATION CHECKLIST FOR SDG 10585797

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10585797001	SWBF0173-110121		FG	SWBF0176-110121	SWBF0173
10585797002	SWBF0174-110121		FG-N	SWBF0176-110121	SWBF0174
10585797003	SWBF0175-110121	Leave this column blank in this worksheet.	FG-D	SWBF0176-110121	SWBF0175
10585797004	SWBF0176-110121		FB	SWBF0176-110121	SWBF0176
10585797005	SWBF0177-110121		FG	SWBF0176-110121	SWBF0177
10585797006	SWBF0178-110121		FG	SWBF0176-110121	SWBF0178
10585797007	SWBF0179-110121		FG	SWBF0176-110121	SWBF0179
10585797008	SWBF0180-110121		FG	SWBF0176-110121	SWBF0180
10585797009	SWBF0181-110121		FG	SWBF0176-110121	SWBF0181
10585797010	SWBF0182-110121		FG	SWBF0176-110121	SWBF0182

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10585797001	SWBF0173-110121		FG	SWBF0176-110121	SWBF0173
10585797002	SWBF0174-110121		FG-N	SWBF0176-110121	SWBF0174
10585797003	SWBF0175-110121		FG-D	SWBF0176-110121	SWBF0175
10585797004	SWBF0176-110121		FB	SWBF0176-110121	SWBF0176
10585797006	SWBF0178-110121		FG	SWBF0176-110121	SWBF0178
10585797007	SWBF0179-110121		FG	SWBF0176-110121	SWBF0179
10585797008	SWBF0180-110121		FG	SWBF0176-110121	SWBF0180
10585797009	SWBF0181-110121		FG	SWBF0176-110121	SWBF0181
10585797010	SWBF0182-110121		FG	SWBF0176-110121	SWBF0182

DATA VALIDATION SUMMARY FOR SDG

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	11/1/2021		
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0173-110121	10585797001	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	FG	SWBF0176-110121	SWBF0182

DATA VALIDATION SUMMARY FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	11/1/2021	11/10/21
Total Hg	Aqueous	EPA 245.1	11/1/2021	11/10/21
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	11/1/2021	11/15/21, 11/16/21
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	11/1/2021	11/12/21, 11/15/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	11/1/2021	11/12/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	11/1/2021	11/8/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	11/1/2021	11/8/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	11/1/2021	11/12/21
Ammonia (NH3)	Aqueous	EPA 350.1	11/1/2021	11/10/21
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	11/1/2021	11/15/21
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	11/1/2021	11/15/21
Total Phosphorus (Phos)	Aqueous	SM4500P-F	11/1/2021	11/15/21
Sulfate (SO4)	Aqueous	ASTM D516	11/1/2021	11/10/21

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	203	36	1
Percentage		79%	85%	15%	0%

Analysis of this data set resulted in 240 natural sample data points. Of these, 203 (85%) had no quality control deficiences and were assigned enforcement quality. Thirty-six (15%) data points were assigned screening quality and one was rejected. Of the screening quality data points, 6 were qualified for a MB detection (lab accuracy) and coded "MB", 5 were qualified for MS/MSD recoveries (lab accuracy) which did not meet acceptance criteria and coded "MS", 23 were qualified for field blank detections (field accuracy) and coded "FB", and 2 were qualified for field duplicate precision which did not meet acceptance criteria and coded "FD". The alkalinity result for SWBF0179 (362 mg/L) was rejected because it was not comparable to alkalinity results for upstream and downstream samples (62.9-108 mg/L), nor to historical alkalinity results for this site. The laboratory re-analyzed the sample and the re-analysis result was 61.8 mg/L. The lab suspects the original analysis was the incorrect sample. Since the re-analysis was so far out of hold (>2 months), it was not usable, but it confirms that the original result was incorrect. Of the 240 anticipated natural sample data points all were collected, but only 239 were usable. Thus, completeness for this data set is 99.6%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/10/21, 11/10/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0173-110121	10585797001	782197	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	782197	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	782197	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	782197	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	782197	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	782197	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	782197	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	782197	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	782197	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	782197	FG	SWBF0176-110121	SWBF0182
Total Mercury					
SWBF0173-110121	10585797001	782195	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	782195	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	782195	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	782195	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	782195	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	782195	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	782195	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	782195	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	782195	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	782195	FG	SWBF0176-110121	SWBF0182

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	11/1/2021	11/10/21	No
Total Hg	Aqueous	EPA 245.1	11/1/2021	11/10/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/15/21, 11/16/21, 11/12/21, 11/15/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWBF0173-110121	10585797001	782363	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	782363	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	782363	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	782363	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	782363	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	782363	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	782363	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	782363	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	782363	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	782363	FG	SWBF0176-110121	SWBF0182
Total Metals					
SWBF0173-110121	10585797001	782364	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	782364	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	782364	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	782364	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	782364	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	782364	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	782364	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	782364	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	782364	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	782364	FG	SWBF0176-110121	SWBF0182

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	11/1/2021	11/15/21, 11/16/21	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	11/1/2021	11/12/21, 11/15/21	No

Describe corrective actions taken because of holding time problems.

0

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y_X_ N___

Describe corrective actions taken because of blank problems.

QC batch 782363, MB 4165811 had detections of CdDis and PbDis. The PbDis detection was <1.5X the MDL and the CdDis detection was >1.5X the MDL. Per TREC data validation guidelines, blank detections ≤1.5X the MDL are not further assessed. CdDis results for SWBF0173, SWBF0174, SWBF0175, and SWBF0178 were > the RL but <10X the MB detection and qualified J+. CdDis results for SWBF0176, SWBF0177, SWBF0179, and SWBF0181 were ≥ the MDL but ≤ the RL and qualified UJ. CdDis results for SWBF0180 and SWBF0182 were < the MDL and not qualified.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y___ N_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

QC batch 782363, LCS 4165812 AgDis recovery was >115%. All AgDis results were non-detect, so no qualifiers were applied.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC batch 782363**, MS 4165813 and MSD 4165814 CaDis recovery <70%. MS 4165815 and MSD 4165816 CaDis recovery >130%. The parent sample concentrations were >4X the spike concentrations, so recovery criteria were waived.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/12/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0173-110121	10585797001	783417	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	783417	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	783417	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	783417	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	783417	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	783417	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	783417	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	783417	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	783417	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	783417	FG	SWBF0176-110121	SWBF0182

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	11/1/2021	11/12/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

The alkalinity result for SWBF0179 was 362 mg/L. The sample was collected at SS-05. Alkalinty for upstream samples was 99.2-108 mg/L. Alkalinity for downstream samples was 62.9-79.2 mg/L. The mistake was found in January 2022. The lab re-ran the sample and got a result of 61.8 mg/L. The lab suspects the original analysis was the incorrect sample. Since the re-analysis was so far out of hold (>2 months), it was not usable, but it confirms that the original result was incorrect. The alkalinity result for SWBF0179 was rejected.

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/8/21, 11/8/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0173-110121	10585797001	781934	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	781934	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	781934	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	781934	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	781934	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	781934	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	781934	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	781934	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	781934	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	781934	FG	SWBF0176-110121	SWBF0182
Total Suspended Solids (TSS)					
SWBF0173-110121	10585797001	781936	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	781936	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	781936	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	781936	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	781936	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	781936	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	781936	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	781936	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	781936	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	781936	FG	SWBF0176-110121	SWBF0182

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	11/1/2021	11/8/21	No
TSS	Aqueous	SM2540D	11/1/2021	11/8/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/10/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0173-110121	10585797001	782663	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	782663	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	782663	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	782663	FB	SWBF0176-110121	SWBF0176
SWBF0181-110121	10585797009	782663	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	782663	FG	SWBF0176-110121	SWBF0182

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	11/1/2021	11/10/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

QC batch 782663, MB 4167006 had a detection at the MDL, which was not further assessed per TREC data validation guidelines.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/15/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0173-110121	10585797001	755862	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	755862	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	755862	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	755862	FB	SWBF0176-110121	SWBF0176
SWBF0181-110121	10585797009	755862	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	755862	FG	SWBF0176-110121	SWBF0182

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	11/1/2021	11/15/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If an MSD was analyzed and if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y___ N_X_
If an MSD was analyzed, were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/12/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0173-110121	10585797001	783048	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	783048	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	783048	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	783048	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	783048	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	783048	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	783048	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	783048	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	783048	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	783048	FG	SWBF0176-110121	SWBF0182

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	11/1/2021	11/12/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC batch 783048**, MSD 4168841 NO2+NO3 recovery was <80%. The parent sample (SWBF0173) for this MS/MSD was collected downstream of a point source discharge. Water chemistry downsteam of the discharge differs from water chemistry upstream of the discharge. Samples SWBF0173-SWBF0175 and SWBF0177-SWBF0179 were collected downstream of the discharge. NO2+NO3 results in SWBF0173-SWBF0175 and SWBF0177-SWBF0179 were > the MDL and qualified J-. The remaining samples were collected upstream of the discharge or were the field blank and considered to be of a differing matrix, therefore were not qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/15/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0173-110121	10585797001	756224	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	756224	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	756224	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	756224	FB	SWBF0176-110121	SWBF0176
SWBF0181-110121	10585797009	756224	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	756224	FG	SWBF0176-110121	SWBF0182

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	11/1/2021	11/15/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

4. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS)	
Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/10/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0173-110121	10585797001	782782	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	782782	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	782782	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	782782	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	782782	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	782782	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	782782	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	782782	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	782782	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	782782	FG	SWBF0176-110121	SWBF0182

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	11/1/2021	11/10/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC batch 782782** , MS 4167606, MS 4167608, and MSD 4167609 sulfate recoveries <70%. The parent sample concentrations were >4X the spike concentrations, so recovery criteria were waived.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	11/1/2021	**Analysis Date(s):**	11/15/21
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0173-110121	10585797001	783578	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	783578	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	783578	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	783578	FB	SWBF0176-110121	SWBF0176
SWBF0181-110121	10585797009	783578	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	783578	FG	SWBF0176-110121	SWBF0182

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	11/1/2021	11/15/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

3. Laboratory Control Sample (LCS)

Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y___ N___ See explanation below
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC batch 783578, MS 4172246 and MSD 4172247 recoveries <80%. The parent sample was not project associated, so matrix similarity cannot be assessed. Therefore, no data were qualified based on recoveries for this MS and MSD.

QC batch 783578, MS 4172244 and MSD 4172245 spike levels differed, so a lab review was requested. The lab replied as follows: "The data review indicated no errors in prep, analysis or reporting of parent sample 10585797001 or MS/MSD samples 4172244/4172245 for total phosphorus. The MSD was prepared using only 40 mL of parent sample due to limited sample volume being available. This equates to a 1.25x dilution factor resulting in the higher spike concentration on the MSD." The MS was prepared using 50 mL of parent sample. Since the MS and MSD had differing concentrations of parent sample, this was not a true laboratory duplicate and an RPD calculation is irrelevant. Thus, no qualifications were made based on the 23% RPD of the MS and MSD results.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10585797
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	11/1/2021		
Data Validator:	Tina Donovan	**Validation Date:**	12/29/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0173-110121	10585797001	FG	SWBF0176-110121	SWBF0173
SWBF0174-110121	10585797002	FG-N	SWBF0176-110121	SWBF0174
SWBF0175-110121	10585797003	FG-D	SWBF0176-110121	SWBF0175
SWBF0176-110121	10585797004	FB	SWBF0176-110121	SWBF0176
SWBF0177-110121	10585797005	FG	SWBF0176-110121	SWBF0177
SWBF0178-110121	10585797006	FG	SWBF0176-110121	SWBF0178
SWBF0179-110121	10585797007	FG	SWBF0176-110121	SWBF0179
SWBF0180-110121	10585797008	FG	SWBF0176-110121	SWBF0180
SWBF0181-110121	10585797009	FG	SWBF0176-110121	SWBF0181
SWBF0182-110121	10585797010	FG	SWBF0176-110121	SWBF0182

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	11/1/2021	11/10/21
Total Hg	Aqueous	EPA 245.1	11/1/2021	11/10/21
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	11/1/2021	11/15/21, 11/16/21
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	11/1/2021	11/12/21, 11/15/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	11/1/2021	11/12/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	11/1/2021	11/8/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	11/1/2021	11/8/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	11/1/2021	11/12/21
Ammonia (NH3)	Aqueous	EPA 350.1	11/1/2021	11/10/21
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	11/1/2021	11/15/21
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	11/1/2021	11/15/21
Total Phosphorus (Phos)	Aqueous	SM4500P-F	11/1/2021	11/15/21
Sulfate (SO4)	Aqueous	ASTM D516	11/1/2021	11/10/21
Field QC Samples				

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

FB SWBF0176 had detections of CdDis, hardness, and sulfate at concentrations <1.5X the MDL, thus were not further assessed per TREC data validation guidelines.

FB SWBF0176 had detections of CuTR, DOC, MgDis, PbDis, and PbTR at concentrations >1.5X the MDL. All MgDis results were >10X the FB detection, so no MgDis data were qualified. CuTR and PbDis, results for SWBF0173-SWBF0175 and SWBF0177-SWBF0182 were > the RL but <10X the FB detection and qualified J+. DOC results for SWBF0173-SWBF0175, SWBF0181, and SWBF0182 were > the RL but <10X the FB detection and qualified J+. PbTR results for SWBF0178, SWBF0181, and SWBF0182 were > the RL but <10X the FB detection and qualified J+. All other PbTR results were >10X the FB detection, so were not qualified.

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Field duplicate set SWBF0174/SWBF0175 AlDis and total phosphorus results had RPDs >20%. Both the primary and duplicate AlDis results were <5X the RL and the difference between them was < the RL, so precision criteria was met for AlDis. The primary and duplicate total phosphorus results were <5X the RL, but the difference between them was > the RL. Matrix similarity is considered when qualifying based on field duplicate precision. The field duplicate set was collected downstream of a point source discharge, as were samples SWBF0173-SWBF0175. Total phosphorus results for SWBF0173 and SWBF0174 were > the MDL and qualified J. The total phosphorus result for SWBF0175 was < the MDL and qualified UJ. Remaining samples analyzed for total phosphorus were collected upstream of the discharge or were the FB, and considered to be of a differing matrix than the field duplicate samples, thus were not qualified.

Additional Comments

DATA VALIDATION CHECKLIST FOR SDG 10590953

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, K, Na, Pb, Mg, Mn, Mo, Si, Ag, Zn, Hardness; Total: Al, As, Ca, Cd, Cu, Fe, Pb, Mn, Mo, Si, Ag, Zn; Alkalinity: Total as $CaCO_3$; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO_2/NO_3); Ammonia (NH_3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO_4); Chloride (Cl^-); Flouride (F)
Sample Date(s):	12/8/2021	**Analysis Date(s):**	
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

DATA VALIDATION CHECKLIST FOR SDG 10590953

Sample Delivery Group (Hg, Metals, Alk, TDS_TSS, NO2+NO3, SO4)					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10590953001	SWBF0183-120821		FG	SWBF0186-120821	10590953
10590953002	SWBF0184-120821		FG-N	SWBF0186-120821	10590953
10590953003	SWBF0185-120821	Leave this column blank in this worksheet.	FG-D	SWBF0186-120821	10590953
10590953004	SWBF0186-120821		FB	S	10590953
10590953005	SWBF0187-120821		FG	S	10590953
10590953006	SWBF0188-120821		FG	S	10590953
10590953007	SWBF0189-120821		FG	S	10590953
10590953008	SWBF0190-120821		FG	SWBF0186-120821	10590953
10590953009	SWBF0191-120821		FG	SWBF0186-120821	10590953
10590953010	SWBF0192-120821		FG	SWBF0186-120821	10590953

Put the field ID of the blank in this column.

Sample Delivery Group (NH3, TKN, DOC, Phos) All samples with these analyses					
Lab Sample ID	**Field Sample ID**		**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
10590953001	SWBF0183-120821		FG	SWBF0186-120821	10590953
10590953002	SWBF0184-120821		FG-N	SWBF0186-120821	10590953
10590953003	SWBF0185-120821		FG-D	SWBF0186-120821	10590953
10590953004	SWBF0186-120821		FB	SWBF0186-120821	10590953
10590953006	SWBF0188-120821		FG	SWBF0186-120821	10590953
10590953007	SWBF0189-120821		FG	SWBF0186-120821	10590953
10590953008	SWBF0190-120821		FG	SWBF0186-120821	10590953
10590953009	SWBF0191-120821		FG	SWBF0186-120821	10590953
10590953010	SWBF0192-120821		FG	SWBF0186-120821	10590953

DATA VALIDATION SUMMARY FOR SDG

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4);
Sample Date(s):	12/8/2021		
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0183-120821	10590953001	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	FG	SWBF0186-120821	SWBF0192

DATA VALIDATION SUMMARY FOR SDG

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	12/8/2021	12/19/21
Total Hg	Aqueous	EPA 245.1	12/8/2021	12/15/21
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	12/8/2021	12/21/21, 12/23/21
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	12/8/2021	12/21/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	12/8/2021	12/21/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	12/8/2021	12/15/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	12/8/2021	12/14/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	12/8/2021	12/22/21
Ammonia (NH3)	Aqueous	EPA 350.1	12/8/2021	12/12/21
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	12/8/2021	12/23/21
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	12/8/2021	12/16/21
Total Phosphorus (Phos)	Aqueous	SM4500P-F	12/8/2021	12/20/21
Sulfate (SO4)	Aqueous	ASTM D516	12/8/2021	12/15/21

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	304	240	217	23	
Percentage		79%	90%	10%	0%

Analysis of this data set resulted in 240 natural sample data points. Two hundred seventeen (90%) of these had no quality control deficiencies and were assigned enforcement quality. Twenty-three data points (10%) were assigned screening quality. Thirteen data points were qualified for MB detections (lab accuracy) and coded "MB" and ten data points were qualified for MS/MSD recoveries (lab accuracy) and coded "MS". All anticipated data were collected and no data points were rejected; thus, completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	12/8/2021	**Analysis Date(s):**	12/19/21, 12/15/21
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWBF0183-120821	10590953001	789316	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	789316	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	789316	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	789316	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	789316	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	789316	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	789316	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	789316	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	789316	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	789316	FG	SWBF0186-120821	SWBF0192
Total Mercury					
SWBF0183-120821	10590953001	788884	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	788884	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	788884	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	788884	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	788884	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	788884	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	788884	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	788884	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	788884	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	788884	FG	SWBF0186-120821	SWBF0192

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Hg	Aqueous	EPA 245.1	12/8/2021	12/19/21	No
Total Hg	Aqueous	EPA 245.1	12/8/2021	12/15/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were the MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**Case Number:**	10590953	
Matrix:	Aqueous		**Analysis:**	Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	
Sample Date(s):	12/8/2021		**Analysis Date(s):**	12/21/21, 12/23/21, 12/21/21	
Data Validator:	Tina Donovan		**Validation Date:**	1/3/2022	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWBF0183-120821	10590953001	788628	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	788628	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	788628	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	790609	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	788628	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	788628	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	788628	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	788628	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	788628	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	788628	FG	SWBF0186-120821	SWBF0192

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

Total Metals

SWBF0183-120821	10590953001	788624	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	788624	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	788624	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	788624	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	788624	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	788624	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	788624	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	788624	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	788624	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	788624	FG	SWBF0186-120821	SWBF0192

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	12/8/2021	12/21/21, 12/23/21	No
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	12/8/2021	12/21/21	No

Describe corrective actions taken because of holding time problems.

0

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y_X_ N___

Describe corrective actions taken because of blank problems.

QC batch 788624*, MB 4197938 had a ZnTR detection at a concentration <1.5X the MDL. Blank detections ≤1.5X the MDL are not assessed per TREC data validation guidelines.*

QC batch 788628*, MB 4197959 had detections of CdDis and PbDis, both at concentrations >1.5X the MDL. CdDis results for associated samples SWBF0183-SWBF0185, SWBF0187, SWBF0190, and SWBF0191 were > the MDL but < the RL and qualified UJ. CdDis results for SWBF0188, SWBF0189, and SWBF0192 were < the MDL, therefore, not qualified. The PbDis result for SWBF0183 was > the but <10X the MB detection and qualified J+. PbDis results for SWBF0184, SWBF0187-SWBF0192 were > the MDL but < the RL and qualified UJ. The PbDis result for SWBF0185 was < the MDL, therefore not qualified.*

LABORATORY DATA VALIDATION CHECKLIST FOR METALS

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of ICS problems.

0

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC batch 788624**, MS 4197940 MoTR recovery >130%. The parent sample for this MS/MSD (SWBF0183) was collected downstream of a point source discharge and water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Samples SWBF0183-SWBF0185 and SWBF0187-SWBF0189 were collected downstream of the discharge; while remaining samples were collected upstream of the discharge or were the field blank. The upstream samples and the FB are considered to be of a different matrix than the parent sample; thus, were not qualified based on the MS recovery. MoTR results for SWBF0183-SWBF0185 and SWBF0187-SWBF0189 were > the MDL and qualified J+.*

***QC batch 788628**, MS 4197958 and MSD 4197959 CaDis recoveries >130%. The parent sample concentration was >4X the spike concentration, so recovery criteria were waived.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as $CaCO_3$
Sample Date(s):	12/8/2021	**Analysis Date(s):**	12/21/21
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0183-120821	10590953001	790407	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	790407	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	790407	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	790407	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	790407	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	790407	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	790407	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	790407	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	790407	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	790407	FG	SWBF0186-120821	SWBF0192

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	12/8/2021	12/21/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD within control window of 20% RPD	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids and Total Suspended Solids
Sample Date(s):	12/8/2021	**Analysis Date(s):**	12/15/21, 12/14/21
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Total Dissolved Solids (TDS)					
SWBF0183-120821	10590953001	789408	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	789285	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	789285	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	789285	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	789286	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	789286	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	789286	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	789286	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	789286	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	789286	FG	SWBF0186-120821	SWBF0192
Total Suspended Solids (TSS)					
SWBF0183-120821	10590953001	788929	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	788929	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	788929	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	788929	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	788929	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	788929	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	788929	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	788929	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	788929	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	788929	FG	SWBF0186-120821	SWBF0192

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
TDS	Aqueous	SM 2540C	12/8/2021	12/15/21	No
TSS	Aqueous	SM2540D	12/8/2021	12/14/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? For sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

If sample & duplicate values > 5 times the RL, was the relative percent difference (RPD) ≤ 10%? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	12/8/2021	**Analysis Date(s):**	12/12/21
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0183-120821	10590953001	788694	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	788694	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	788694	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	788694	FB	SWBF0186-120821	SWBF0186
SWBF0191-120821	10590953009	788694	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	788694	FG	SWBF0186-120821	SWBF0192

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	12/8/2021	12/12/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	12/8/2021	**Analysis Date(s):**	12/23/21
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0183-120821	10590953001	763368	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	763092	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	763092	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	763092	FB	SWBF0186-120821	SWBF0186
SWBF0191-120821	10590953009	763092	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	763092	FG	SWBF0186-120821	SWBF0192

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	12/8/2021	12/23/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS.	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 10% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Were the MS/MSD results within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If an MSD was analyzed and if MS & MSD results > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y___ N___ NA _X_
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y___ N_X_
If an MSD was analyzed, were any data flagged because of MS/MSD RPD problems?	Y___ N___ NA _X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	12/8/2021	**Analysis Date(s):**	12/22/21
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0183-120821	10590953001	790585	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	790585	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	790585	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	790585	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	790585	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	790585	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	790585	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	790585	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	790585	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	790585	FG	SWBF0186-120821	SWBF0192

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	12/8/2021	12/22/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR NITRATE+NITRITE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC batch 790585** , MSD 4207572 recovery was <80%. The parent sample for this MS/MSD (SWBF0183) was collected downstream of a point source discharge and water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Samples SWBF0183-SWBF0185 and SWBF0187-SWBF0189 were collected downstream of the discharge; while remaining samples were collected upstream of the discharge or were the field blank. The upstream samples and the FB are considered to be of a different matrix than the parent sample; thus, were not qualified based on the MS recovery. Nitrate + nitrite results for SWBF0183-SWBF0185 and SWBF0187-SWBF0189 were > the MDL and qualified J-.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	12/8/2021	**Analysis Date(s):**	12/16/21
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0183-120821	10590953001	762095	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	762095	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	762095	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	762095	FB	SWBF0186-120821	SWBF0186
SWBF0191-120821	10590953009	762095	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	762095	FG	SWBF0186-120821	SWBF0192

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	12/8/2021	12/16/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
4. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y_X_ N___
Describe corrective actions taken because of LCS problems.	Y___ N_X_
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
If sample & duplicate values > 5 times the RL, were results of the duplicate within control window of 25% relative percent difference (RPD)? If sample or duplicate values < 5 times the RL, was the absolute difference between sample and duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
4. Matrix Spike (MS)	
Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	12/8/2021	**Analysis Date(s):**	12/15/21
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0183-120821	10590953001	789271	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	789271	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	789271	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	789271	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	789271	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	789271	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	789271	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	789271	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	789271	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	789271	FG	SWBF0186-120821	SWBF0192

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	12/8/2021	12/15/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were theLCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD within the control window of ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC batch 789271** , MS 4200855 sulfate recovery was >120% and MSD 4200856 sulfate recovery was <80%. Additionally, the RPD between the MS and MSD results was >30%. The parent sample for this MS/MSD was not project associated, so matrix similarity cannot be determined. Therefore, no qualifiers were applied based on these MS/MSD recoveries or the RPD between the two results. MS 4200857 and MSD 4200858 sulfate recoveries were <80%. The parent sample concentrations were >4X the spike concentrations, so recovery criteria were waived.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	12/8/2021	**Analysis Date(s):**	12/20/21
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0183-120821	10590953001	790000	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	790000	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	790000	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	790000	FB	SWBF0186-120821	SWBF0186
SWBF0191-120821	10590953009	790000	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	790000	FG	SWBF0186-120821	SWBF0192

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date(s)	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	12/8/2021	12/20/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHATE

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Were the MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
If MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? If MS or MSD values < 5 times the RL, was the absolute difference between MS and MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Approved Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**Case Number:**	10590953
Matrix:	Aqueous	**Analysis:**	Dissolved Hg; Total Hg; Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness; Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Sulfate (SO4)
Sample Date(s):	12/8/2021		
Data Validator:	Tina Donovan	**Validation Date:**	1/3/2022

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWBF0183-120821	10590953001	FG	SWBF0186-120821	SWBF0183
SWBF0184-120821	10590953002	FG-N	SWBF0186-120821	SWBF0184
SWBF0185-120821	10590953003	FG-D	SWBF0186-120821	SWBF0185
SWBF0186-120821	10590953004	FB	SWBF0186-120821	SWBF0186
SWBF0187-120821	10590953005	FG	SWBF0186-120821	SWBF0187
SWBF0188-120821	10590953006	FG	SWBF0186-120821	SWBF0188
SWBF0189-120821	10590953007	FG	SWBF0186-120821	SWBF0189
SWBF0190-120821	10590953008	FG	SWBF0186-120821	SWBF0190
SWBF0191-120821	10590953009	FG	SWBF0186-120821	SWBF0191
SWBF0192-120821	10590953010	FG	SWBF0186-120821	SWBF0192

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Hg	Aqueous	EPA 245.1	12/8/2021	12/19/21
Total Hg	Aqueous	EPA 245.1	12/8/2021	12/15/21
Dissolved: Al, As, Ca, Cd, Cu, Fe, Pb, Mg,Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	12/8/2021	12/21/21, 12/23/21
Total: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	12/8/2021	12/21/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	12/8/2021	12/21/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	12/8/2021	12/15/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	12/8/2021	12/14/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	12/8/2021	12/22/21
Ammonia (NH3)	Aqueous	EPA 350.1	12/8/2021	12/12/21
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	12/8/2021	12/23/21
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	12/8/2021	12/16/21
Total Phosphorus (Phos)	Aqueous	SM4500P-F	12/8/2021	12/20/21
Sulfate (SO4)	Aqueous	ASTM D516	12/8/2021	12/15/21

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y___ N_X_

FB SWBF0186 had detections of PbDis and PbTR at concentrations <1.5X the MDL. Blank concentrations ≤1.5X the MDL are not assessed per TREC data validation guidelines.

FB SWBF0186 had a sulfate detection >1.5X the MDL. Sulfate results for all samples were >10X the FB detection, so no data were qualified.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y_X_ N___

Were any data qualified because of FD results? Y___ N_X_

Field duplicate set SWBF0184/SWBF0185 had RPDs >20% for CdDis and PbDis results. Both the primary and duplicate CdDis and PbDis results were <5X the RLs and the differences between the results were < the RLs; therefore, field precision criteria was met.

Additional Comments

LABORATORY DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Duplicate set SWBF0002/SWBF0003, RPDs > 20% were as follows. AlDis 28.6%, CdTR 45.1%, CuDis 37.3%, ammonia 71.6%, and TDS 102.8%. The natural and duplicate AlDis, CdTR, and ammonia results were <5X the RL and the absolute differences between respective results were <RL thus, no AlDis, CdTR or ammonia results were qualified for field precision. Natural and duplicate CuDis results were <5X the RL, but the difference between the two results was > the RL. Natural and duplicate TDS results were > 5X the RL. The duplicate set was collected downstream of a point-source discharge and has matrix similarity to samples SWBF0001 and SWBF005-SWBF007. CuDis and TDS results for SWBF0001-SWBF0003 and SWBF0005-SWBF0007 were > the MDL and qualified J. CuDis results were also qualified for a FB detection which resulted in overall J+ qualifiers.

FBs are not assessed for field precision since they are of a differing matrix than the duplicate sample set.

Additional Comments

Attachment A2
Wet Weather Analytical and Field Data Validation Checklists

DATA VALIDATION SUMMARY FOR SDG 10568665

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury; Total Mercury; Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn; Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4)
Sample Date(s):	07/01/2021, 07/06/2021		
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	07/01/2021, 07/06/2021	07/13/2021
Total Mercury	Aqueous	EPA 245.1	07/01/2021, 07/06/2021	07/13/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021, 07/20/2021, 07/21/2021, 8/4/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021, 07/19/2021, 07/20/2021, 7/21/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	07/01/2021, 07/06/2021	07/14/2021, 07/15/2021, 07/16/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	07/01/2021, 07/06/2021	07/08/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	07/01/2021, 07/06/2021	07/08/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	07/01/2021, 07/06/2021	07/08/2021, 07/09/2021
Ammonia (NH3)	Aqueous	EPA 350.1	07/01/2021, 07/06/2021	07/12/2021

DATA VALIDATION SUMMARY FOR SDG 10568665

Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	07/01/2021, 07/06/2021	07/16/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021
Sulfate (SO4)	Aqueous	ASTM D516	07/01/2021, 07/06/2021	07/16/2021, 07/19/2021, 07/21/2021
Were Level A field documentation and QA/QC practices met for this data set?				Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?				Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	1344	1216	1155	61	0
Percentage	100%	90%	95%	5%	0%

Analyses of this sample set resulted in 1216 natural data points. Of these natural data points, 1155 (95%) had no associated quality control deficiencies and are defined as enforcement quality while, 61 (5%) had quality control deficiencies and are defined as screening quality. Of the 61 screening quality data points, 25 were coded "MS" due lab accuracy criteria not being met, 2 were coded "RPD" due to lab precision criteria not being met, 14 were coded "FB" due to field accuracy criteria not being met, and 20 were coded "FD" due to field precision criteria not being met. All anticipated data was collected thus, completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	07/01/2021, 07/06/2021	**Analysis Date(s):**	07/13/2021
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWWW0133-070121	10568665001	754590	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	754590	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	754590	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	754590	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	754590	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	754590	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	754590	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	754590	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	754590	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	754590	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	754590	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	754590	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	754590	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	754590	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	754590	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	754590	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	754590	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	754590	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	754590	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	754590	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	754591	IS2	SWWW0146-070621	SWWW0153
SWWW0154-070121	10568665022	754591	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	754591	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	754591	FB	SWWW0156-070621	SWWW0156

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0157-070121	10568665025	754591	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	754591	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	754591	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	754591	IS1	SWWW0156-070621	SWWW0160
SWWW0161-070121	10568665029	754591	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	754591	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	754591	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	754591	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	754591	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	754591	IS3	SWWW0156-070621	SWWW0166
SWWW0167-070121	10568665035	754591	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	754591	IS1	SWWW0156-070621	SWWW0168
SWWW0169-070121	10568665037	754591	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	754591	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	754591	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	754591	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	754592	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	754592	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	754592	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	754592	IS1	SWWW0156-070621	SWWW0176
Total Mercury					
SWWW0133-070121	10568665001	754596	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	754596	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	754596	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	754596	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	754596	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	754596	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	754596	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	754596	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	754596	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	754596	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	754596	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	754596	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	754596	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	754596	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	754596	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	754596	IS3	SWWW0146-070621	SWWW0148

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0149-070121	10568665017	754596	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	754596	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	754596	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	754596	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	754597	IS2	SWWW0146-070621	SWWW0153
SWWW0154-070121	10568665022	754597	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	754597	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	754597	FB	SWWW0156-070621	SWWW0156
SWWW0157-070121	10568665025	754597	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	754597	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	754597	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	754597	IS1	SWWW0156-070621	SWWW0160
SWWW0161-070121	10568665029	754597	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	754597	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	754597	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	754597	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	754597	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	754597	IS3	SWWW0156-070621	SWWW0166
SWWW0167-070121	10568665035	754597	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	754597	IS1	SWWW0156-070621	SWWW0168
SWWW0169-070121	10568665037	754597	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	754597	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	754597	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	754597	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	754598	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	754598	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	754598	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	754598	IS1	SWWW0156-070621	SWWW0176

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	07/01/2021, 07/06/2021	07/13/2021	No
Total Mercury	Aqueous	EPA 245.1	07/01/2021, 07/06/2021	07/13/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 754598 *, HgTR was detected in MB 4024071 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Was MS/MSD within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10568655	
Matrix:	Aqueous		**Analysis:**	Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	
Sample Date(s):	07/01/2021, 07/06/2021		**Analysis Date(s):**	8/15/2021, 8/16/2021, 8/19/2021-8/21/2021	
Data Validator:	Nadia Reed		**Validation Date:**	8/24/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWWW0133-070121	10568665001	754583	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	754583	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	754583	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	754583	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	754583	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	754583	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	754583	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	754583	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	754583	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	754583	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	754583	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	754583	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	754583	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	754583	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	754583	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	754583	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	754583	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	754583	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	754583	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	754583	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	754584	IS2	SWWW0146-070621	SWWW0153
SWWW0154-070121	10568665022	754584	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	754584	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	754584	FB	SWWW0156-070621	SWWW0156
SWWW0157-070121	10568665025	754584	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	754584	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	754584	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	754584	IS1	SWWW0156-070621	SWWW0160

SWWW0161-070121	10568665029	754584	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	754584	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	754584	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	754584	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	754584	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	754584	IS3	SWWW0156-070621	SWWW0166
SWWW0167-070121	10568665035	754584	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	754584	IS1	SWWW0156-070621	SWWW0168
SWWW0169-070121	10568665037	754584	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	754584	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	754584	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	754584	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	754585, 760609 (Pb only)	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	754585, 760609 (Pb only)	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	754585	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	754585	IS1	SWWW0156-070621	SWWW0176
Total Metals					
SWWW0133-070121	10568665001	754586	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	754586	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	754586	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	754586	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	754586	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	754586	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	754586	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	754586	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	754586	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	754586	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	754586	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	754586	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	754586	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	754586	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	754586	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	754586	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	754586	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	754586	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	754586	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	754586	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	754587	IS2	SWWW0146-070621	SWWW0153
SWWW0154-070121	10568665022	754587	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	754587	IS1-D	SWWW0156-070621	SWWW0155

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0156-070621	10568665024	754587	FB	SWWW0156-070621	SWWW0156
SWWW0157-070121	10568665025	754587	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	754587	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	754587	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	754587	IS1	SWWW0156-070621	SWWW0160
SWWW0161-070121	10568665029	754587	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	754587	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	754587	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	754587	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	754587	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	754587	IS3	SWWW0156-070621	SWWW0166
SWWW0167-070121	10568665035	754587	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	754587	IS1	SWWW0156-070621	SWWW0168
SWWW0169-070121	10568665037	754587	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	754587	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	754587	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	754587	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	754588	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	754588	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	754588	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	754588	IS1	SWWW0156-070621	SWWW0176

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021, 07/20/2021, 07/21/2021, 8/4/21	No
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021, 07/19/2021, 07/20/2021, 7/21/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 754588, *PbTR was detected in MB 4024029 at a concentration >1.5X MDL. Associated PbTR sample results were >10X the MB value and were not qualified.*

QC Batch 754583, *CaDis was detected in MB 4024005 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

QC Batch 754584, *MgDis was detected in MB 4024010 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

QC Batch 754585, *PbDis was detected in MB 4024015 at a concentration >1.5X MDL. Associated PbDis sample results were >10X the MB value and were not qualified.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Was MS result within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 754587, *MS 4024026 FeTR recovery >130%. Associated samples SWWW0153-SWWW0155 and SWWW157-SWWW0164 were ≥ MDL and qualified J+. The parent sample (SWWW0153) was collected upstream of a point source discharge and samples SWWW0165-SWWW0172 were collected downstream of the discharge location thus, were of a dissimilar matrix than the parent sample and were not qualified based on MS recovery criteria.*

QC Batch 754583, *MS 4024008 CaDis recovery <70%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentration.*

QC Batch 754584, *MSD 4024014 CaDis recovery <70%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentration.*

QC Batch 754585, *MS 4024017 MSD 4024018 CaDis recoveries >130%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentrations.*

QC batch 760609, *no MS/MSD was analyzed. Only PbDis results for samples SWWW0173 and SWWW0174 were associated with this QC batch. An LCSD was analyzed satisfying the laboratory duplicate requirement. These two samples were also analyzed in QC batch 754585. MB 4024015 in QC batch 4024015 had a PbDis detection, and PbDis results for SWWW0173 and SWWW0174 were <10X that MB detection, which explains why they were reported with QC batch 760609. MS/MSD 4024017/4024018 in QC batch 754585 did report PbDis recoveries which were within acceptance criteria. Since samples SWWW0176 and SWWW0174 were analyzed in both QC batches, the MS/MSD frequency criteria was met.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as CaCO3
Sample Date(s):	07/01/2021, 07/06/2021	**Analysis Date(s):**	07/14/2021, 07/15/2021, 07/16/2021
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0133-070121	10568665001	755811	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	755811	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	755811	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	755811	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	755811	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	755811	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	755811	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	755811	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	755811	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	756209	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	756456	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	756209	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	756209	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	756739	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	756209	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	756209	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	756209	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	756209	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	756209	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	756209	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	756209	IS2	SWWW0146-070621	SWWW0153
SWWW0154-070121	10568665022	756209	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	756209	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	756739	FB	SWWW0156-070621	SWWW0156
SWWW0157-070121	10568665025	756209	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	756209	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	756209	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	756209	IS1	SWWW0156-070621	SWWW0160
SWWW0161-070121	10568665029	756209	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	756209	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	756209	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	756456	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	756456	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	756456	IS3	SWWW0156-070621	SWWW0166

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

SWWW0167-070121	10568665035	756456	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	756456	IS1	SWWW0156-070621	SWWW0168
SWWW0169-070121	10568665037	756456	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	756456	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	756456	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	756456	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	756456	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	756456	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	756456	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	756456	IS1	SWWW0156-070621	SWWW0176

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	07/01/2021, 07/06/2021	07/14/2021, 07/15/2021, 07/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery? Y_X_ N___
Was LCS/LCSD ≤ 20% RPD? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___
Was MS result within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples? Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS problems.

***QC Batch 755811**, MS 4029768 MSD 4029769 recoveries >130%. No associated Alkalinity sample results were qualified because the parent sample concentration was >4X the spike concentrations.*

***QC Batch 756739**, MS 4035353 MSD 4035354 recoveries >130%, but the parent sample was >4X the spike concentrations in addition, the parent sample was not project associated; thus, no associated Alkalinity results were qualified.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids (TDS) Total Suspended Solids (TSS)
Sample Date(s):	07/01/2021, 07/06/2021	**Analysis Date(s):**	07/08/2021
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWWW0133-070121	10568665001	754643	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	754643	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	754643	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	754643	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	754643	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	754643	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	754643	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	754643	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	754643	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	754643	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	754643	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	754643	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	754643	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	754657	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	754643	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	754643	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	754643	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	754643	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	754643	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	754643	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	754643	IS2	SWWW0146-070621	SWWW0153
SWWW0154-070121	10568665022	754647	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	754647	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	754657	FB	SWWW0156-070621	SWWW0156

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0157-070121	10568665025	754647	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	754647	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	754647	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	754647	IS1	SWWW0156-070621	SWWW0160
SWWW0161-070121	10568665029	754647	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	754647	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	754647	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	754647	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	754647	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	754647	IS3	SWWW0156-070621	SWWW0166
SWWW0167-070121	10568665035	754647	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	754647	IS1	SWWW0156-070621	SWWW0168
SWWW0169-070121	10568665037	754647	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	754647	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	754647	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	754647	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	754647	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	754647	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	754657	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	754657	IS1	SWWW0156-070621	SWWW0176
Total Suspended Solids (TSS)					
SWWW0133-070121	10568665001	754646	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	754646	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	754646	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	754646	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	754646	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	754646	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	754646	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	754646	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	754646	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	754646	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	754646	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	754646	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	754646	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	754659	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	754646	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	754646	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	754646	IS2	SWWW0146-070621	SWWW0149

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0150-070121	10568665018	754646	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	754646	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	754646	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	754646	IS2	SWWW0146-070621	SWWW0153
SWWW0154-070121	10568665022	754649	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	754649	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	754659	FB	SWWW0156-070621	SWWW0156
SWWW0157-070121	10568665025	754649	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	754649	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	754649	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	754649	IS1	SWWW0156-070621	SWWW0160
SWWW0161-070121	10568665029	754649	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	754649	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	754649	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	754649	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	754649	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	754649	IS3	SWWW0156-070621	SWWW0166
SWWW0167-070121	10568665035	754649	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	754649	IS1	SWWW0156-070621	SWWW0168
SWWW0169-070121	10568665037	754649	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	754649	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	754649	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	754649	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	754649	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	754649	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	754659	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	754659	IS1	SWWW0156-070621	SWWW0176

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	07/01/2021, 07/06/2021	07/08/2021	No
Total Suspended Solids (TSS)	Aqueous	SM2540D	07/01/2021, 07/06/2021	07/08/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y_X_ N___

Describe corrective actions taken because of LDS problems.

***QC Batch 754657**, laboratory duplicate 4024229 TDS RPD > 10% and both original and duplicate sample results ≥ 5X RL. Associated TDS sample results SWWW0175 and SWWW0176 were ≥ MDL and qualified J. The other two samples in this QC batch, SWWW0146 and SWWW0156 were field blanks (FBs). FBs are not assessed for duplicate precision since DI water is very dissimilar to a natural sample.*

***QC Batch 754649**, Laboratoy duplicate 4024184 TSS RPD > 10%, but both original and duplicate sample results < 5X RL and the difference between the two results was < the RL. Therefore, associated TSS results were not qualified.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	07/01/2021, 07/06/2021	**Analysis Date(s):**	07/12/2021
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0133-070121	10568665001	755360	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	755360	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	755361	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	755361	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	755361	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	755361	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	755361	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	755361	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	755361	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	755361	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	755361	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	755361	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	755361	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	755361	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	755361	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	755361	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	755361	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	755361	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	755361	IS4	SWWW0156-070621	SWWW0151
SWWW0152-070121	10568665020	755361	IS3	SWWW0156-070621	SWWW0152
SWWW0153-070121	10568665021	755361	IS2	SWWW0156-070621	SWWW0153
SWWW0154-070121	10568665022	755361	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	755460	IS1-D	SWWW0156-070621	SWWW0155

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

SWWW0156-070621	10568665024	755460	FB	SWWW0156-070621	SWWW0156
SWWW0173-070121	10568665041	755460	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	755460	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	755460	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	755460	IS1	SWWW0156-070621	SWWW0176

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	07/01/2021, 07/06/2021	07/12/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	07/01/2021, 07/06/2021	**Analysis Date(s):**	07/16/2021
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0133-070121	10568665001	732261	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	732261	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	732261	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	732261	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	732261	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	732261	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	732261	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	732261	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	732261	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	732261	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	732261	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	732261	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	732261	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	732261	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	732261	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	732261	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	732261	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	732261	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	732261	IS4	SWWW0156-070621	SWWW0151
SWWW0152-070121	10568665020	732261	IS3	SWWW0156-070621	SWWW0152
SWWW0153-070121	10568665021	732262	IS2	SWWW0156-070621	SWWW0153
SWWW0154-070121	10568665022	732262	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	732262	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	732262	FB	SWWW0156-070621	SWWW0156
SWWW0173-070121	10568665041	732262	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	732262	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	732262	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	732262	IS1	SWWW0156-070621	SWWW0176

1. Holding Times

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	07/01/2021, 07/06/2021	07/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS. Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

***QC Batch 732261** , sample duplicate RPD >10%. However, original and duplicate sample results were < 5X the RL and the absolute difference between original and duplicate sample results was < RL, no results were qualified.*

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples? Y_X_ N___

Was the MS (and MSD if analyzed) within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

If an MSD was used for the laboratory duplicate sample, for sample & duplicate values > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS (or MSD if analyzed) recovery problems? Y___ N_X_

If an MSD was used for the laboratory duplicate sample, were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	07/01/2021, 07/06/2021	**Analysis Date(s):**	07/08/2021, 07/09/2021
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0133-070121	10568665001	754807	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	754807	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	754822	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	754822	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	754822	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	754822	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	754822	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	754822	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	754822	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	754822	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	754822	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	754822	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	754822	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	754822	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	754822	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	754822	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	754822	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	754822	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	754822	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	754822	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	754822	IS2	SWWW0146-070621	SWWW0153
SWWW0154-070121	10568665022	754822	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	754823	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	754823	FB	SWWW0156-070621	SWWW0156
SWWW0157-070121	10568665025	754823	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	754823	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	754823	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	754823	IS1	SWWW0156-070621	SWWW0160
SWWW0161-070121	10568665029	754823	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	754823	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	754823	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	754823	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	754823	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	754823	IS3	SWWW0156-070621	SWWW0166
SWWW0167-070121	10568665035	754823	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	754823	IS1	SWWW0156-070621	SWWW0168

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

SWWW0169-070121	10568665037	754823	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	754823	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	754823	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	754823	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	754823	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	754823	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	754824	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	754824	IS1	SWWW0156-070621	SWWW0176

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	07/01/2021, 07/06/2021	07/08/2021, 07/09/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 754807, *NO2+NO3 was detected in MB 4024775 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

QC Batch 754822, *NO2+NO3 was detected in MB 4024856 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

QC Batch 754823, *NO2+NO3 was detected in MB 4024862 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

QC Batch 754824, *NO2+NO3 was detected in MB 4024868 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	07/01/2021, 07/06/2021	**Analysis Date(s):**	07/15/2021, 07/16/2021
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0133-070121	10568665001	731841	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	731840	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	731840	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	731840	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	731841	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	731840	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	731840	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	731840	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	731841	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	731840	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	731840	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	731840	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	731840	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	731841	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	731841	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	731840	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	731840	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	731840	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	731841	IS4	SWWW0156-070621	SWWW0151
SWWW0152-070121	10568665020	731840	IS3	SWWW0156-070621	SWWW0152
SWWW0153-070121	10568665021	731840	IS2	SWWW0156-070621	SWWW0153
SWWW0154-070121	10568665022	731840	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	731840	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	731841	FB	SWWW0156-070621	SWWW0156
SWWW0173-070121	10568665041	731841	IS4	SWWW0156-070621	SWWW0173

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

SWWW0174-070121	10568665042	731840	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	731840	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	731840	IS1	SWWW0156-070621	SWWW0176

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

4. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 25% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

4. Matrix Spike (MS)

Was the MS analyzed at the frequency of 1/20 samples ? Y_X_ N___

Was the MS within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were any data flagged because of MS recovery problems? Y___ N_X_

Describe corrective actions taken because of MS recovery problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	07/01/2021, 07/06/2021	**Analysis Date(s):**	07/16/2021, 07/19/2021, 07/21/2021
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0133-070121	10568665001	756645	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	756645	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	756645	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	756645	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	756645	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	756645	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	756645	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	756645	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	756647	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	756647	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	756647	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	756647	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	756647	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	756647	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	756647	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	756647	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	756647	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	756647	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	756647	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	756647	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	756647	IS2	SWWW0146-070621	SWWW0153
SWWW0154-070121	10568665022	756647	IS1-N	SWWW0156-070621	SWWW0154

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWWW0155-070121	10568665023	756647	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	756647	FB	SWWW0156-070621	SWWW0156
SWWW0157-070121	10568665025	756647	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	756647	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	756647	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	756647	IS1	SWWW0156-070621	SWWW0160
SWWW0161-070121	10568665029	756654	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	756654	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	756654	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	756654	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	757775	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	756654	IS3	SWWW0156-070621	SWWW0166
SWWW0167-070121	10568665035	756654	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	756654	IS1	SWWW0156-070621	SWWW0168
SWWW0169-070121	10568665037	757775	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	756654	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	757775	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	756654	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	756654	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	756654	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	756654	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	756654	IS1	SWWW0156-070621	SWWW0176

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	07/01/2021, 07/06/2021	07/16/2021, 07/19/2021, 07/21/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 756645**, MSD 4034845, MS 4034846 MSD 4034847 recoveries <80%, but the parent samples were not project associated and matrix similarity could not be determined thus, no associated SO4 data were qualified based on these MS/MSD recoveries.*

***QC Batch 756647**, MS 4034860 MSD 4034861 and MS 4034862 MSD 4034863 recoveries >120%. Associated SO4 results in SWWW0141-SWWW0145 and SWWW0147-SWWW0150 were ≥MDL and qualified J+. The parent samples (SWWW0141 and SWWW0150) were collected downstream of a point source discharge; and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Samples SWWW0151-SWWW0160 were collected upstream of the discharge; thus, sulfate results for these upstream samples were not qualified.*

***QC Batch 756654**, MS 4034896 recovery >120%. Associated SO4 sample results SWWW0161-SWWW0164 were ≥ MDL and qualified J+. The parent sample (SWWW0162) was collected upstream of a point source discharge and as stated above water chemistry upsream of the discharge differs from downstream water chemistry. Thus sulfate results in samples SWWW0166-SWWW0176, which were collected downstream of the discharge, are of a dissimilar matrix than the parent sample and were not qualified.*

***QC Batch 757775**, MS 4040925 and MS 4040927 MSD 4040928 recoveries >120%. Associated SO4 sample results SWWW0165, SWWW0169, and SWWW0171 were ≥ MDL and qualified J+.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHORUS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	07/01/2021, 07/06/2021	**Analysis Date(s):**	07/15/2021, 07/16/2021
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0133-070121	10568665001	755609	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	755609	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	755609	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	755609	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	755609	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	755609	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	755609	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	755609	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	755609	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	755610	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	755610	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	755610	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	755610	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	755610	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	755610	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	755610	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	755610	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	755610	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	755610	IS4	SWWW0156-070621	SWWW0151
SWWW0152-070121	10568665020	755610	IS3	SWWW0156-070621	SWWW0152
SWWW0153-070121	10568665021	755610	IS2	SWWW0156-070621	SWWW0153
SWWW0154-070121	10568665022	755610	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	755610	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	755610	FB	SWWW0156-070621	SWWW0156

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHORUS

SWWW0173-070121	10568665041	755610	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	755610	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	755610	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	755610	IS1	SWWW0156-070621	SWWW0176

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 90-110% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/20 samples ? Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568655
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn, Alkalinity: Total as CaCO3, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Nitrate/Nitrate (NO2/NO3), Ammonia (NH3), Total Kjedahl Nitrogen (TKN), Dissolved Organic Carbon (DOC), Total Phosphorus (Phos), Sulfate (SO4)
Sample Date(s):	07/01/2021, 07/06/2021		
Data Validator:	Nadia Reed	**Validation Date:**	8/24/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0133-070121	10568665001	IS4	SWWW0146-070621	SWWW0133
SWWW0134-070121	10568665002	IS3	SWWW0146-070621	SWWW0134
SWWW0135-070121	10568665003	IS2	SWWW0146-070621	SWWW0135
SWWW0136-070121	10568665004	IS1	SWWW0146-070621	SWWW0136
SWWW0137-070121	10568665005	IS4	SWWW0146-070621	SWWW0137
SWWW0138-070121	10568665006	IS3	SWWW0146-070621	SWWW0138
SWWW0139-070121	10568665007	IS2	SWWW0146-070621	SWWW0139
SWWW0140-070121	10568665008	IS1	SWWW0146-070621	SWWW0140
SWWW0141-070121	10568665009	IS4	SWWW0146-070621	SWWW0141
SWWW0142-070121	10568665010	IS3	SWWW0146-070621	SWWW0142
SWWW0143-070121	10568665011	IS2	SWWW0146-070621	SWWW0143
SWWW0144-070121	10568665012	IS1-N	SWWW0146-070621	SWWW0144
SWWW0145-070121	10568665013	IS1-D	SWWW0146-070621	SWWW0145
SWWW0146-070621	10568665014	FB	SWWW0146-070621	SWWW0146
SWWW0147-070121	10568665015	IS4	SWWW0146-070621	SWWW0147
SWWW0148-070121	10568665016	IS3	SWWW0146-070621	SWWW0148
SWWW0149-070121	10568665017	IS2	SWWW0146-070621	SWWW0149
SWWW0150-070121	10568665018	IS1	SWWW0146-070621	SWWW0150
SWWW0151-070121	10568665019	IS4	SWWW0146-070621	SWWW0151
SWWW0152-070121	10568665020	IS3	SWWW0146-070621	SWWW0152
SWWW0153-070121	10568665021	IS2	SWWW0146-070621	SWWW0153

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWWW0154-070121	10568665022	IS1-N	SWWW0156-070621	SWWW0154
SWWW0155-070121	10568665023	IS1-D	SWWW0156-070621	SWWW0155
SWWW0156-070621	10568665024	FB	SWWW0156-070621	SWWW0156
SWWW0157-070121	10568665025	IS4	SWWW0156-070621	SWWW0157
SWWW0158-070121	10568665026	IS3	SWWW0156-070621	SWWW0158
SWWW0159-070121	10568665027	IS2	SWWW0156-070621	SWWW0159
SWWW0160-070121	10568665028	IS1	SWWW0156-070621	SWWW0160
SWWW0161-070121	10568665029	IS4	SWWW0156-070621	SWWW0161
SWWW0162-070121	10568665030	IS3	SWWW0156-070621	SWWW0162
SWWW0163-070121	10568665031	IS2	SWWW0156-070621	SWWW0163
SWWW0164-070121	10568665032	IS1	SWWW0156-070621	SWWW0164
SWWW0165-070121	10568665033	IS4	SWWW0156-070621	SWWW0165
SWWW0166-070121	10568665034	IS3	SWWW0156-070621	SWWW0166
SWWW0167-070121	10568665035	IS2	SWWW0156-070621	SWWW0167
SWWW0168-070121	10568665036	IS1	SWWW0156-070621	SWWW0168
SWWW0169-070121	10568665037	IS4	SWWW0156-070621	SWWW0169
SWWW0170-070121	10568665038	IS3	SWWW0156-070621	SWWW0170
SWWW0171-070121	10568665039	IS2	SWWW0156-070621	SWWW0171
SWWW0172-070121	10568665040	IS1	SWWW0156-070621	SWWW0172
SWWW0173-070121	10568665041	IS4	SWWW0156-070621	SWWW0173
SWWW0174-070121	10568665042	IS3	SWWW0156-070621	SWWW0174
SWWW0175-070121	10568665043	IS2	SWWW0156-070621	SWWW0175
SWWW0176-070121	10568665044	IS1	SWWW0156-070621	SWWW0176

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	07/01/2021, 07/06/2021	07/13/2021
Total Mercury	Aqueous	EPA 245.1	07/01/2021, 07/06/2021	07/13/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021, 07/20/2021, 07/21/2021, 8/4/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021, 07/19/2021, 07/20/2021, 7/21/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	07/01/2021, 07/06/2021	07/14/2021, 07/15/2021, 07/16/2021

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Total Dissolved Solids (TDS)	Aqueous	SM 2540C	07/01/2021, 07/06/2021	07/08/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	07/01/2021, 07/06/2021	07/08/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	07/01/2021, 07/06/2021	07/08/2021, 07/09/2021
Ammonia (NH3)	Aqueous	EPA 350.1	07/01/2021, 07/06/2021	07/12/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	07/01/2021, 07/06/2021	07/16/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	07/01/2021, 07/06/2021	07/15/2021, 07/16/2021
Sulfate (SO4)	Aqueous	ASTM D516	07/01/2021, 07/06/2021	07/16/2021, 07/19/2021, 07/21/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

*MgDis, MoTR, and NO2+NO3 were detected in **FB SWWW0146** at concentrations ≤1.5X the MDL thus, were not further assessed per TREC data validation guidelines.*

*CaDis, DOC, Hardness, PbTR, and SO4 were detected in **FB SWWW0146** at concentrations >1.5X MDL. Associated CaDis, Hardness, and PbTR results were >10X the FB value and were not qualified. Associated DOC sample results in SWWW0138, SWWW0141, SWWW0147, and SWWW0150 were >RL, but ≤10X the FB value and were qualified J+. Associated SO4 result in SWWW0136 was >RL, but ≤10X the FB value and was qualified J+.*

*CaDis, Hardness, MgDis, NO2+NO3, and TDS were detected in **FB SWWW0156** at concentrations ≤1.5X the MDL thus, were not further assessed per TREC data validation guidelines.*

*DOC, total P, and PbTR were detected in **FB SWWW0156** at concentrations >1.5X MDL. Associated DOC result in SWWW0174 was >RL, but ≤10X the FB value and was qualified J+. Associated total P results in SWWW0151-SWWW0155, SWWW0173, SWWW0175, and SWWW0176 were >RL, but ≤10X the FB value and were qualified J+. Total P result in SWWW0174 was ≥MDL, but ≤RL and qualified UJ. Associated PbTR results were >10X the FB value and were not qualified.*

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

***Duplicate set SWWW0144/SWWW0145**, AlDis, HgTR, NH3, and TDS RPDs >20%. The primary and duplicate AlDis, HgTR, and NH3 results were <5X the RL and the absolute differences between the respective sample results were <RL thus, no associated AlDis, HgTR, or NH3 results were qualified for field precision. The primary and duplicate TDS sample results were > 5X the RL and associated TDS results in SWWW0133-SWWW0145 and SWWW0147-SWWW0150 were >MDL and qualified J. Matrix similarity is not considered when qualifying gravimetric analyses since these analyses are determined by filtration.*

***Duplicate set SWWW0154/SWWW0155**, AgDis, CdDis, and TKN RPDs >20%. The primary and duplicate AgDis and CdDis results were <5X the RL and the absolute differences between the respective results were <RL thus, no associated AgDis or CdDis results were qualified for field precision. The primary and duplicate TKN sample results were > 5X the RL. Matrix similarity is considered when assessing field precision. The duplicate sample set was collected at a site above a point source discharge and water chemistry below the discharge differs from water chemistry above the discharge. Samples SWWW0173-SWWW0176 were collected below the discharge; thus, TKN results only in SWWW0151- SWWW0155 were qualified. TheseTKN results were >MDL and qualified J.*

Field blanks are not qualified based on field precision since DI water is very different from natural samples.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

DATA VALIDATION SUMMARY FOR SDG 10562380

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury; Total Mercury; Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn; Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4)
Sample Date(s):	5/23/2021		
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	5/23/2021	6/10/2021
Total Mercury	Aqueous	EPA 245.1	5/23/2021	6/10/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	5/23/2021	6/11/2021, 6/12/2021, 6/14/2021, 6/15/2021
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	5/23/2021	6/10/2021, 6/11/2021, 6/14/2021, 6/15/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	5/23/2021	6/3/2021, 6/4/2021,
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	5/23/2021	5/30/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/23/2021	5/30/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	5/23/2021	6/4/2021
Ammonia (NH3)	Aqueous	EPA 350.1	5/23/2021	6/3/2021, 6/9/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	5/23/2021	6/7/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	5/23/2021	6/7/2021-6/10/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	5/23/2021	6/11/2021

DATA VALIDATION SUMMARY FOR SDG 10562380

Sulfate (SO4)	Aqueous	ASTM D516	5/23/2021	6/7/2021, 6/14/2021
Were Level A field documentation and QA/QC practices met for this data set?				Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?				Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	1344	1216	1125	84	7
Percentage	100%	90%	93%	7%	0.58%

Analysis of this data set resulted in 1216 natural sample data points. Of these, 1125 (93%) had no quality control deficiencies and are defined as enforcement quality, 84 (7%) were assigned screening quality, and 7 (<1%) were rejected. Of the 84 screening quality data points, 18 were qualified for MS/MSD recoveries which did not meet acceptance criteria, 20 were qualified for field precision which did not meet acceptance criteria, 41 were qualified for field blank detections, and 5 were qualified for both a field blank detection and MS/MSD recoveries. Seven non-detect data points were rejected for MS/MDS recoveries below 30%. Since 7 data points were rejected and not usable, completeness for this data set is 99.4%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	5/23/2021	**Analysis Date(s):**	6/10/2021, 6/10/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWWW0001-052321	10562380001	747415	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	747415	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	747415	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	747415	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	747415	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	747415	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	747415	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	747415	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	747415	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	747415	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	747415	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	747415	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	747415	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	747415	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	747415	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	747415	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	747415	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	747415	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	747415	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	747415	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	747417	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	747417	IS1	SWWW0010-052521	SWWW0022
SWWW0023-052321	10562380023	747417	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	747417	IS3	SWWW0044-052521	SWWW0024

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0025-052321	10562380025	747417	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	747417	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	747417	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	747417	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	747417	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	747417	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	747417	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	747417	IS3	SWWW0044-052521	SWWW0032
SWWW0033-052321	10562380033	747417	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	747417	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	747417	IS4	SWWW0044-052521	SWWW0035
SWWW0036-052321	10562380036	747417	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	747417	IS2	SWWW0044-052521	SWWW0037
SWWW0038-052321	10562380038	747417	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	747417	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	747417	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	747486	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	747486	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	747486	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	747486	FB	SWWW0044-052521	SWWW0044
Total Mercury					
SWWW0001-052321	10562380001	747424	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	747424	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	747424	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	747424	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	747424	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	747424	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	747424	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	747424	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	747424	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	747424	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	747424	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	747424	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	747424	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	747424	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	747424	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	747424	IS3	SWWW0010-052521	SWWW0016

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0017-052321	10562380017	747424	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	747424	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	747424	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	747424	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	747430	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	747430	IS1	SWWW0010-052521	SWWW0022
SWWW0023-052321	10562380023	747430	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	747430	IS3	SWWW0044-052521	SWWW0024
SWWW0025-052321	10562380025	747430	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	747430	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	747430	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	747430	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	747430	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	747430	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	747430	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	747430	IS3	SWWW0044-052521	SWWW0032
SWWW0033-052321	10562380033	747430	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	747430	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	747430	IS4	SWWW0044-052521	SWWW0035
SWWW0036-052321	10562380036	747430	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	747430	IS2	SWWW0044-052521	SWWW0037
SWWW0038-052321	10562380038	747430	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	747430	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	747430	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	747492	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	747492	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	747492	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	747492	FB	SWWW0044-052521	SWWW0044

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	5/23/2021	6/10/2021	No
Total Mercury	Aqueous	EPA 245.1	5/23/2021	6/10/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Was MS/MSD within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10562380	
Matrix:	Aqueous		**Analysis:**	Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	
Sample Date(s):	5/23/2021		**Analysis Date(s):**	6/10/2021-6/12/2021, 6/14/2021, 6/15/2021	
Data Validator:	Tina Donovan		**Validation Date:**	7/7/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWWW0001-052321	10562380001	747412	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	747412	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	747412	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	747412	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	747412	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	747412	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	747412	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	747412	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	747412	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	747412	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	747412	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	747412	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	747412	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	747412	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	747412	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	747412	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	747412	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	747412	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	747412	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	747412	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	747413	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	747413	IS1	SWWW0010-052521	SWWW0022
SWWW0023-052321	10562380023	747413	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	747413	IS3	SWWW0044-052521	SWWW0024

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0025-052321	10562380025	747413	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	747413	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	747413	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	747413	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	747413	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	747413	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	747413	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	747413	IS3	SWWW0044-052521	SWWW0032
SWWW0033-052321	10562380033	747413	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	747413	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	747413	IS4	SWWW0044-052521	SWWW0035
SWWW0036-052321	10562380036	747413	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	747413	IS2	SWWW0044-052521	SWWW0037
SWWW0038-052321	10562380038	747413	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	747413	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	747413	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	747482	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	747482	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	747482	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	747482	FB	SWWW0044-052521	SWWW0044

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Total Metals					
SWWW0001-052321	10562380001	747422	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	747422	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	747422	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	747422	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	747422	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	747422	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	747422	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	747422	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	747422	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	747422	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	747422	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	747422	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	747422	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	747422	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	747422	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	747422	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	747422	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	747422	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	747422	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	747422	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	747423	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	747423	IS1	SWWW0010-052521	SWWW0022
SWWW0023-052321	10562380023	747423	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	747423	IS3	SWWW0044-052521	SWWW0024

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0025-052321	10562380025	747423	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	747423	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	747423	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	747423	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	747423	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	747423	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	747423	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	747423	IS3	SWWW0044-052521	SWWW0032
SWWW0033-052321	10562380033	747423	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	747423	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	747423	IS4	SWWW0044-052521	SWWW0035
SWWW0036-052321	10562380036	747423	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	747423	IS2	SWWW0044-052521	SWWW0037
SWWW0038-052321	10562380038	747423	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	747423	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	747423	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	747490	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	747490	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	747490	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	747490	FB	SWWW0044-052521	SWWW0044

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	5/23/2021	6/11/2021, 6/12/2021, 6/14/2021, 6/15/2021	No
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	5/23/2021	6/10/2021, 6/11/2021, 6/14/2021, 6/15/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

*Dissolved metals **QC batch 747482** , MB 3987036 had detections of AlDis, FeDis, and MoDis. The AlDis and FeDis detections were <1.5X the MDL, thus were not further assessed per TREC DV guidelines. Associated MoDis results were >10X the MB detection or < the MDL, so no data were qualified.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of ICS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Was MS result within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

*Total metals **QC batch 747423** , MS 3986692 and MSD 3986693 had AgTR recoveries <30%. The parent sample for this MS was collected upstream of a point source discharge, and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Samples SWWW0021-SWWW0030 were collected upstream of the discharge and are of a similar matrix to the parent sample, SWWW0027. AgTR results in SWWW0021, -0022, and -0025 were > the MDL and qualified J-. AgTR results in SWWW0023, -0024, and SWWW0026 through SWWW0030 were non-detect and qualified R. Dissolved metals **QC batch 747412** , MS 3986640 and MSD 3986641 CaDis recoveries <70%. MS 3986642 CaDis recovery >130%. Dissolved metals **QC batch 747413** , MS 3986645 CaDis recovery was >130%. Dissolved metals **QC batch 747482** , MS 3987038 CaDis recovery was <70%. In all cases, the parent sample concentrations were >4X the spike concentrations so recovery criteria were waived.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as CaCO3
Sample Date(s):	5/23/2021	**Analysis Date(s):**	6/3/2021, 6/4/2021, 6/8/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0001-052321	10562380001	746235	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	746235	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	746235	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	746235	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	746308	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	746308	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	746308	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	746308	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	746308	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	747361	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	746308	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	746308	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	746308	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	746308	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	746308	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	746308	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	746308	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	746834	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	746892	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	746834	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	746834	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	746834	IS1	SWWW0010-052521	SWWW0022
SWWW0023-052321	10562380023	746834	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	746834	IS3	SWWW0044-052521	SWWW0024
SWWW0025-052321	10562380025	746834	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	746834	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	746834	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	746834	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	746834	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	746834	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	746834	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	746834	IS3	SWWW0044-052521	SWWW0032

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

SWWW0033-052321	10562380033	746834	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	746834	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	746834	IS4	SWWW0044-052521	SWWW0035
SWWW0036-052321	10562380036	746834	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	746834	IS2	SWWW0044-052521	SWWW0037
SWWW0038-052321	10562380038	746892	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	746892	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	746892	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	746892	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	746892	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	746834	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	747361	FB	SWWW0044-052521	SWWW0044

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	5/23/2021	6/3/2021, 6/4/2021, 6/8/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD ≤ 20% RPD?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Was MS result within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids (TDS) Total Suspended Solids (TSS)
Sample Date(s):	5/23/2021	**Analysis Date(s):**	5/30/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWWW0001-052321	10562380001	745242	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	745242	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	745242	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	745242	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	745242	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	745242	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	745242	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	745242	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	745242	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	745246	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	745242	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	745242	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	745242	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	745242	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	745242	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	745242	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	745242	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	745242	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	745242	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	745242	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	745242	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	745244	IS1	SWWW0010-052521	SWWW0022
SWWW0023-052321	10562380023	745244	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	745244	IS3	SWWW0044-052521	SWWW0024

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0025-052321	10562380025	745244	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	745244	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	745244	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	745244	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	745244	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	745244	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	745244	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	745244	IS3	SWWW0044-052521	SWWW0032
SWWW0033-052321	10562380033	745244	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	745244	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	745244	IS4	SWWW0044-052521	SWWW0035
SWWW0036-052321	10562380036	745244	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	745244	IS2	SWWW0044-052521	SWWW0037
SWWW0038-052321	10562380038	745244	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	745244	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	745244	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	745244	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	745246	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	745246	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	745246	FB	SWWW0044-052521	SWWW0044
Total Suspended Solids (TSS)					
SWWW0001-052321	10562380001	745243	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	745243	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	745243	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	745243	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	745243	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	745243	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	745243	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	745243	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	745243	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	745247	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	745243	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	745243	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	745243	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	745243	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	745243	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	745243	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	745243	IS2	SWWW0010-052521	SWWW0017

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0018-052321	10562380018	745243	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	745243	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	745243	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	745243	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	745245	IS1	SWWW0010-052521	SWWW0022
SWWW0023-052321	10562380023	745245	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	745245	IS3	SWWW0044-052521	SWWW0024
SWWW0025-052321	10562380025	745245	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	745245	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	745245	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	745245	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	745245	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	745245	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	745245	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	745245	IS3	SWWW0044-052521	SWWW0032
SWWW0033-052321	10562380033	745245	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	745245	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	745245	IS4	SWWW0044-052521	SWWW0035
SWWW0036-052321	10562380036	745245	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	745245	IS2	SWWW0044-052521	SWWW0037
SWWW0038-052321	10562380038	745245	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	745245	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	745245	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	745245	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	745247	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	745247	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	745247	FB	SWWW0044-052521	SWWW0044

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	5/23/2021	5/30/2021	No
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/23/2021	5/30/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

*TSS **QC batch 745245** , laboratory duplicate 3974949 had a 14% RPD between the parent and duplicate sample. Both results were <5X the RL and the difference between the two results was < the RL; therefore, no qualifiers were applied.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	5/23/2021	**Analysis Date(s):**	6/3/2021, 6/9/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0001-052321	10562380001	746225	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	746225	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	746225	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	746225	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	746225	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	746225	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	746225	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	746225	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	746225	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	746225	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	746225	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	746225	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	746225	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	746352	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	746352	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	746352	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	746352	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	746352	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	746352	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	746352	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	746352	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	747840	IS1	SWWW0010-052521	SWWW0022
SWWW0039-052321	10562380039	747840	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	747840	IS3	SWWW0044-052521	SWWW0040

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

SWWW0041-052321	10562380041	747840	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	747840	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	747840	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	747840	FB	SWWW0044-052521	SWWW0044

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	5/23/2021	6/3/2021, 6/9/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC batch 746225, *MS 3980423 had >110% recovery. The parent sample for this MS was collected upstream of a point source discharge, and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Samples SWWW0001-SWWW0004 were collected upstream of the discharge and are of a similar matrix to the parent sample, SWWW0002. Ammonia results for these four samples were non-detect, so none of these results were qualified based on the high MS recovery.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	5/23/2021	**Analysis Date(s):**	6/7/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0001-052321	10562380001	724044	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	724044	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	724044	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	724044	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	724044	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	724044	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	724044	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	724044	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	724044	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	724044	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	724044	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	724044	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	724046	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	724046	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	724046	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	724046	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	724046	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	724046	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	724046	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	724046	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	724046	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	724046	IS1	SWWW0010-052521	SWWW0022
SWWW0039-052321	10562380039	724325	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	724325	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	724325	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	724325	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	724325	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	724325	FB	SWWW0044-052521	SWWW0044

1. Holding Times

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	5/23/2021	6/7/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS. Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples? Y_X_ N___

Was the MS (and MSD if analyzed) within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

If an MSD was used for the laboratory duplicate sample, for sample & duplicate values > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS (or MSD if analyzed) recovery problems? Y___ N_X_

If an MSD was used for the laboratory duplicate sample, were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC batch 724044**, MS 2910548 had >110% recovery. **QC batch 724325**, MS 2911654 had <90% recovery. In both cases, the parent sample concentrations were >4X the spike concentrations so recovery criteria were waived.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	5/23/2021	**Analysis Date(s):**	6/4/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0001-052321	10562380001	746625	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	746625	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	746641	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	746641	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	746641	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	746641	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	746641	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	746641	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	746641	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	746641	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	746641	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	746641	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	746641	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	746641	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	746641	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	746641	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	746641	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	746641	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	746641	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	746641	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	746641	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	746641	IS1	SWWW0010-052521	SWWW0022
SWWW0023-052321	10562380023	746643	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	746643	IS3	SWWW0044-052521	SWWW0024
SWWW0025-052321	10562380025	746643	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	746643	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	746643	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	746643	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	746643	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	746643	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	746643	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	746643	IS3	SWWW0044-052521	SWWW0032
SWWW0033-052321	10562380033	746643	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	746643	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	746643	IS4	SWWW0044-052521	SWWW0035
SWWW0036-052321	10562380036	746643	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	746643	IS2	SWWW0044-052521	SWWW0037

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

SWWW0038-052321	10562380038	746643	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	746643	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	746643	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	746643	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	746643	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	746644	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	746644	FB	SWWW0044-052521	SWWW0044

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	5/23/2021	6/4/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC batch 746625 *MB 3982559,* ***QC batch 746641*** *MB 3982627, and* ***QC batch 746644*** *MB 3982643 all had detections <1.5X the MDL. Blank detections ≤1.5X the MDL are not assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC batch 746641 *, MSD 3982630, MS 3982631, and MSD 3982632 had recoveries <80%. The parent samples for these MS samples were collected upstream of a point source discharge, and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Samples SWWW0019 through SWWW0022 were collected upstream of the discharge and are of a similar matrix to the parent samples SWWW003 and SWWW0004. Associated NO2+NO3 results in SWWW0003, SWWW0004, and SWWW0019 through SWWW0022 were qualified J-.*

QC batch 746643 *MS 3982639 had <80% recovery. The parent sample for this MS was collected upstream of a point source discharge. Samples SWWW0024 through SWWW0030 were also collected upstream of the discharge and are of a similar matrix to the parent sample, SWWW0023. Associated NO2+NO3 results SWWW0023 through SWWW0030 were qualified J-.*

QC batch 746644 *, MS 3982645, MSD 3982646, and MSD 3982648 had recoveries <80%. Neither of the parent samples for these MS samples were project associated. Since matrix similarity cannot be assessed, no associated NO2+NO3 results were qualified.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	5/23/2021	**Analysis Date(s):**	6/7/2021-6/10/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0001-052321	10562380001	724848	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	724848	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	724848	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	724848	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	724848	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	724848	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	724848	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	724848	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	724848	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	724848	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	724848	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	724848	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	724848	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	724848	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	724848	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	724848	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	724848	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	724848	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	725251	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	725251	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	725251	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	725251	IS1	SWWW0010-052521	SWWW0022
SWWW0039-052321	10562380039	725251	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	725251	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	725251	IS2	SWWW0044-052521	SWWW0041

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

SWWW0042-052321	10562380042	725251	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	725251	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	725251	FB	SWWW0044-052521	SWWW0044

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	5/23/2021	6/7/2021-6/10/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

4. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 25% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

4. Matrix Spike (MS)

Was the MS analyzed at the frequency of 1/20 samples ? Y_X_ N___

Was the MS within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were any data flagged because of MS recovery problems? Y___ N_X_

Describe corrective actions taken because of MS recovery problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	5/23/2021	**Analysis Date(s):**	6/7/2021, 6/14/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0001-052321	10562380001	748265	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	748265	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	748265	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	746801	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	746801	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	746801	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	746801	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	746801	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	746801	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	746801	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	746801	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	746801	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	746801	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	746801	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	746801	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	746801	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	746801	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	746801	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	746801	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	746801	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	746801	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	746801	IS1	SWWW0010-052521	SWWW0022

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWWW0023-052321	10562380023	746801	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	747231	IS3	SWWW0044-052521	SWWW0024
SWWW0025-052321	10562380025	747231	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	747231	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	747231	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	747231	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	747231	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	747231	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	747231	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	747231	IS3	SWWW0044-052521	SWWW0032
SWWW0033-052321	10562380033	747231	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	747231	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	747231	IS4	SWWW0044-052521	SWWW0035
SWWW0036-052321	10562380036	747231	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	747231	IS2	SWWW0044-052521	SWWW0037
SWWW0038-052321	10562380038	747231	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	747231	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	747231	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	747231	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	747231	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	747231	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	748856	FB	SWWW0044-052521	SWWW0044

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	5/23/2021	6/7/2021, 6/14/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC batch 746801**, MS 3983538 had <80% recovery. The parent sample for this MS was collected upstream of a point source discharge and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Samples SWWW0019 through SWWW0023 were also collected upstream of the discharge and are of a similar matrix to the parent sample, SWWW0004. Sulfate results in SWWW004 and SWWW0019 through SWWW0023 were qualified for the low MS recovery with SWWW0023 receiving a J- qualifier. Sulfate results in SWWW0004 and SWWW0019 through SWWW0022 were also qualified for a FB detection, so an overall qualifier of J was applied.*

***QC batch 746801**, MSD 3983541 had <80% recovery, but the parent sample concentration was >4X the spike concentration so recovery criteria were waived.*

***QC batch 748265**, MS 3983531 and MSD 3983532 had <80% recoveries, while MS 3983533 and MSD 3983534 had >120% recoveries. The parent sample concentrations for both MS/MSDs were >4X the spike concentrations, so recovery criteria were waived.*

***QC batch 748856**, MSD 3994719 had <80% recovery. The parent sample for this MSD was not project associated so matrix similarity cannot be determined. Additionally, the only sample in this QC batch was a FB, which is dissimalar to any sample that is not made up of DI water. No qualifiers were applied.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHORUS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	5/23/2021	**Analysis Date(s):**	6/11/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0001-052321	10562380001	747972	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	747972	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	747972	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	747972	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	747972	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	747972	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	747972	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	747972	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	747972	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	747972	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	747972	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	747972	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	747972	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	747972	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	747972	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	747972	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	748108	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	748108	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	748108	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	748108	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	748108	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	748108	IS1	SWWW0010-052521	SWWW0022

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHORUS

SWWW0039-052321	10562380039	748108	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	748108	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	748108	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	748108	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	748108	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	748108	FB	SWWW0044-052521	SWWW0044

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	5/23/2021	6/11/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/20 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562380
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn, Alkalinity: Total as CaCO3, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Nitrate/Nitrate (NO2/NO3), Ammonia (NH3), Total Kjedahl Nitrogen (TKN), Dissolved Organic Carbon (DOC), Total Phosphorus (Phos), Sulfate (SO4)
Sample Date(s):	5/23/2021		
Data Validator:	Tina Donovan	**Validation Date:**	7/7/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0001-052321	10562380001	IS4	SWWW0010-052521	SWWW0001
SWWW0002-052321	10562380002	IS3	SWWW0010-052521	SWWW0002
SWWW0003-052321	10562380003	IS2	SWWW0010-052521	SWWW0003
SWWW0004-052321	10562380004	IS1	SWWW0010-052521	SWWW0004
SWWW0005-052321	10562380005	IS4	SWWW0010-052521	SWWW0005
SWWW0006-052321	10562380006	IS3	SWWW0010-052521	SWWW0006
SWWW0007-052321	10562380007	IS2	SWWW0010-052521	SWWW0007
SWWW0008-052321	10562380008	IS1-N	SWWW0010-052521	SWWW0008
SWWW0009-052321	10562380009	IS1-D	SWWW0010-052521	SWWW0009
SWWW0010-052521	10562380010	FB	SWWW0010-052521	SWWW0010
SWWW0011-052321	10562380011	IS4	SWWW0010-052521	SWWW0011
SWWW0012-052321	10562380012	IS3	SWWW0010-052521	SWWW0012
SWWW0013-052321	10562380013	IS2	SWWW0010-052521	SWWW0013
SWWW0014-052321	10562380014	IS1	SWWW0010-052521	SWWW0014
SWWW0015-052321	10562380015	IS4	SWWW0010-052521	SWWW0015
SWWW0016-052321	10562380016	IS3	SWWW0010-052521	SWWW0016
SWWW0017-052321	10562380017	IS2	SWWW0010-052521	SWWW0017
SWWW0018-052321	10562380018	IS1	SWWW0010-052521	SWWW0018
SWWW0019-052321	10562380019	IS4	SWWW0010-052521	SWWW0019
SWWW0020-052321	10562380020	IS3	SWWW0010-052521	SWWW0020
SWWW0021-052321	10562380021	IS2	SWWW0010-052521	SWWW0021
SWWW0022-052321	10562380022	IS1	SWWW0010-052521	SWWW0022
SWWW0023-052321	10562380023	IS4	SWWW0044-052521	SWWW0023
SWWW0024-052321	10562380024	IS3	SWWW0044-052521	SWWW0024
SWWW0025-052321	10562380025	IS2	SWWW0044-052521	SWWW0025
SWWW0026-052321	10562380026	IS1	SWWW0044-052521	SWWW0026
SWWW0027-052321	10562380027	IS4	SWWW0044-052521	SWWW0027
SWWW0028-052321	10562380028	IS3	SWWW0044-052521	SWWW0028
SWWW0029-052321	10562380029	IS2	SWWW0044-052521	SWWW0029
SWWW0030-052321	10562380030	IS1	SWWW0044-052521	SWWW0030
SWWW0031-052321	10562380031	IS4	SWWW0044-052521	SWWW0031
SWWW0032-052321	10562380032	IS3	SWWW0044-052521	SWWW0032
SWWW0033-052321	10562380033	IS2	SWWW0044-052521	SWWW0033
SWWW0034-052321	10562380034	IS1	SWWW0044-052521	SWWW0034
SWWW0035-052321	10562380035	IS4	SWWW0044-052521	SWWW0035

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWWW0036-052321	10562380036	IS3	SWWW0044-052521	SWWW0036
SWWW0037-052321	10562380037	IS2	SWWW0044-052521	SWWW0037
SWWW0038-052321	10562380038	IS1	SWWW0044-052521	SWWW0038
SWWW0039-052321	10562380039	IS4	SWWW0044-052521	SWWW0039
SWWW0040-052321	10562380040	IS3	SWWW0044-052521	SWWW0040
SWWW0041-052321	10562380041	IS2	SWWW0044-052521	SWWW0041
SWWW0042-052321	10562380042	IS1-N	SWWW0044-052521	SWWW0042
SWWW0043-052321	10562380043	IS1-D	SWWW0044-052521	SWWW0043
SWWW0044-052521	10562380044	FB	SWWW0044-052521	SWWW0044

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	5/23/2021	6/10/2021
Total Mercury	Aqueous	EPA 245.1	5/23/2021	6/10/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	5/23/2021	6/11/2021, 6/12/2021, 6/14/2021, 6/15/2021
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	5/23/2021	6/10/2021, 6/11/2021, 6/14/2021, 6/15/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	5/23/2021	6/3/2021, 6/4/2021, 6/8/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	5/23/2021	5/30/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/23/2021	5/30/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	5/23/2021	6/4/2021
Ammonia (NH3)	Aqueous	EPA 350.1	5/23/2021	6/3/2021, 6/9/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	5/23/2021	6/7/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	5/23/2021	6/7/2021-6/10/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	5/23/2021	6/11/2021
Sulfate (SO4)	Aqueous	ASTM D516	5/23/2021	6/7/2021, 6/14/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

FB SWWW0010 had detections of DOC, PbTR, sulfate, and TDS. The PbTR detection was <1.5X the MDL, so was not further assessed per TREC DV guidelines. All associated TDS results were >10X the FB detection, so no qualifiers were applied. DOC results for SWWW0001, SWWW0003, SWWW0005 through SWWW0007, SWWW0011 through SWWW0013, and SWWW0015 through SWWW0022 were > the RL but <10X the FB detection and qualified J+. Sulfate results in SWWW0001 through SWWW0003 were > the RL but <10X the FB detection and qualified J+. Sulfate results in SWWW0004 and SWWW0019 through SWWW0022 were > the RL but <10X the FB detection. These sulfate results were also qualified for a low MS recovery, so the overall qualifier was J. FB SWWW0044 had detections of CuDis, DOC, FeDis, NO2+NO3, PbDis, PbTR, and TDS. The FeDis, NO2+NO3, PbDis, PbTR, and TDS detections were <1.5X the MDL, so were not further assessed per TREC DV guidelines. CuDis results in SWWW0023 and SWWW0025 through SWWW0043 were > the RL but <10X the FB detection and qualified J+. DOC results in SWWW0039 through SWWW0041 were > the RL but <10X the FB detection and qualified J+.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Field duplicate set SWWW0008/SWWW0009 had >20% RPD for TSS results. The natural sample TSS result was <5X the RL and the duplicate sample TSS result was >5X the RL. The difference between the two results was > the RL. Since TSS analysis is a filtration, the chemical matrix does not cause interference. Thus, TSS results in all associated samples were qualified. TSS results in SWWW0001 through SWWW0003, SWWW005 through SWWW009, and SWWW0011 through SWWW0022 were > the MDL and qualified J. The TSS result in SWWW004 was < the MDL and qualified UJ. Field blanks (SWWW0010) are not assessed for field precision since DI water is very different than a natural sample.

Field duplicate set SWWW0042/SWWW0043 had >20% RPDs for AgTR and TKN results. Both the natural and duplicate AgTR and TKN results were <5X the RL and the differences between the results were < the RL. Therefore no data were qualified based on the AgTR and TKN RPDs.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

DATA VALIDATION SUMMARY FOR SDG 10576060

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576060
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury; Total Mercury; Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness; Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Sulfate (SO4)
Sample Date(s):	8/21/21, 8/24/21		
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/21/21, 8/24/21	9/1/21
Total Mercury	Aqueous	EPA 245.1	8/21/21, 8/24/21	9/7/21, 9/8/21
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	8/21/21, 8/24/21	9/1/21-9/3/21, 9/8/21, 9/9/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/21/21, 8/24/21	8/31/21, 9/2/21, 9/7/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/21/21, 8/24/21	9/2/21, 9/3/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/21/21, 8/24/21	8/27/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/21/21, 8/24/21	8/27/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/21/21, 8/24/21	9/9/21
Sulfate (SO4)	Aqueous	ASTM D516	8/21/21, 8/24/21	9/2/21, 9/7/21, 9/10/21

Were Level A field documentation and QA/QC practices met for this data set? Y_X_ N___

Were Level B field documentation and QA/QC practices met for this data set? Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	1232	1120	1058	62	
Percentage		91%	94%	6%	0%

Analysis of this data set resulted in 1120 natural sample data points. Of these, 1058 (94%) had no quality control deficiencies and were assigned enforcement quality. Sixty-two data points (6%) were assigned screening quality. Of the 62 screening quality data points, 12 were qualified for MS/MSD recoveries which did not meet acceptance criteria (laboratory accuracy), 20 were qualified for both MS/MSD recoveries and laboratory duplicate RPDs which did not meet acceptance criteria (laboratory accuracy and precision), 18 were qualified for laboratory duplicate RPDs which did not meet acceptance criteria (laboratory precision), and 12 were qualified for field duplicate RPDs which did not meet acceptance criteria (field precision). All anticpated data were collected, thus completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576060
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	8/21/21, 8/24/21	**Analysis Date(s):**	9/1/21, 9/7/21, 9/8/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWWW0293-082121	10576060001	766486	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	766486	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	766486	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	766486	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	766486	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	766486	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	766486	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	766486	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	766486	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	766486	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	766486	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	766486	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	766486	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	766486	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	766486	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	766486	IS3	SWWW0306-082421	SWWW0308
SWWW0309-082121	10576060017	766486	IS2	SWWW0306-082421	SWWW0309
SWWW0310-082121	10576060018	766486	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	766486	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	766486	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	766487	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	766487	IS1	SWWW0306-082421	SWWW0314
SWWW0315-082121	10576060023	766487	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	766487	IS3	SWWW0328-082421	SWWW0316

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0317-082121	10576060025	766487	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	766487	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	766487	IS4	SWWW0328-082421	SWWW0319
SWWW0320-082121	10576060028	766487	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	766487	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	766487	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	766487	IS4	SWWW0328-082421	SWWW0323
SWWW0324-082121	10576060032	766487	IS3	SWWW0328-082421	SWWW0324
SWWW0325-082121	10576060033	766487	IS2	SWWW0328-082421	SWWW0325
SWWW0326-082121	10576060034	766487	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	766487	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	766487	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	766487	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	766487	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	766487	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	766487	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	766485	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	766485	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	766485	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	766485	IS1	SWWW0328-082421	SWWW0336
Total Mercury					
SWWW0293-082121	10576060001	766492	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	766492	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	766492	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	766492	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	766492	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	766492	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	766492	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	766492	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	766492	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	766492	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	766492	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	766492	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	766492	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	766492	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	766492	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	766492	IS3	SWWW0306-082421	SWWW0308

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0309-082121	10576060017	766492	IS2	SWWW0306-082421	SWWW0309
SWWW0310-082121	10576060018	766492	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	766492	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	766492	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	766493	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	766493	IS1	SWWW0306-082421	SWWW0314
SWWW0315-082121	10576060023	766493	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	766493	IS3	SWWW0328-082421	SWWW0316
SWWW0317-082121	10576060025	766493	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	766493	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	766493	IS4	SWWW0328-082421	SWWW0319
SWWW0320-082121	10576060028	766493	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	766493	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	766493	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	766493	IS4	SWWW0328-082421	SWWW0323
SWWW0324-082121	10576060032	766493	IS3	SWWW0328-082421	SWWW0324
SWWW0325-082121	10576060033	766493	IS2	SWWW0328-082421	SWWW0325
SWWW0326-082121	10576060034	766493	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	766493	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	766493	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	766493	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	766493	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	766493	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	766493	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	766491	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	766491	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	766491	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	766491	IS1	SWWW0328-082421	SWWW0336

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	8/21/21, 8/24/21	9/1/21	No
Total Mercury	Aqueous	EPA 245.1	8/21/21, 8/24/21	9/7/21, 9/8/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Was MS/MSD within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576060
Matrix:	Aqueous	**Analysis:**	Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	8/21/21, 8/24/21	**Analysis Date(s):**	9/1/21-9/3/21, 9/8/21, 9/9/21, 8/31/21, 9/2/21,
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWWW0293-082121	10576060001	766501	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	766501	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	766501	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	766501	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	766501	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	766501	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	766501	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	766501	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	766501	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	766501	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	766501	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	766501	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	766501	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	766501	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	766501	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	766501	IS3	SWWW0306-082421	SWWW0308
SWWW0309-082121	10576060017	766501	IS2	SWWW0306-082421	SWWW0309
SWWW0310-082121	10576060018	766501	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	766501	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	766501	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	768140	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	768140	IS1	SWWW0306-082421	SWWW0314
SWWW0315-082121	10576060023	768140	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	768140	IS3	SWWW0328-082421	SWWW0316
SWWW0317-082121	10576060025	768140	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	768140	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	768140	IS4	SWWW0328-082421	SWWW0319

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0320-082121	10576060028	768140	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	768140	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	768140	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	768140	IS4	SWWW0328-082421	SWWW0323
SWWW0324-082121	10576060032	768140	IS3	SWWW0328-082421	SWWW0324
SWWW0325-082121	10576060033	768140	IS2	SWWW0328-082421	SWWW0325
SWWW0326-082121	10576060034	768140	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	768140	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	768140	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	768140	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	768140	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	768140	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	768140	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	766500	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	766500	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	766500	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	766500	IS1	SWWW0328-082421	SWWW0336
Total Metals					
SWWW0293-082121	10576060001	768142	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	766506	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	766506	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	766506	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	766506	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	766506	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	766506	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	766506	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	766506	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	766506	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	766506	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	766506	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	766506	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	768142	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	766506	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	766506	IS3	SWWW0306-082421	SWWW0308
SWWW0309-082121	10576060017	766506	IS2	SWWW0306-082421	SWWW0309
SWWW0310-082121	10576060018	766506	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	768142	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	766506	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	766508	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	766508	IS1	SWWW0306-082421	SWWW0314
SWWW0315-082121	10576060023	766508	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	766508	IS3	SWWW0328-082421	SWWW0316

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0317-082121	10576060025	766508	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	766508	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	766508	IS4	SWWW0328-082421	SWWW0319
SWWW0320-082121	10576060028	766508	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	766508	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	766508	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	766508	IS4	SWWW0328-082421	SWWW0323
SWWW0324-082121	10576060032	766508	IS3	SWWW0328-082421	SWWW0324
SWWW0325-082121	10576060033	766508	IS2	SWWW0328-082421	SWWW0325
SWWW0326-082121	10576060034	766508	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	766508	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	766508	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	766508	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	766508	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	766508	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	766508	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	766505	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	766505	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	766505	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	766505	IS1	SWWW0328-082421	SWWW0336

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	8/21/21, 8/24/21	9/1/21-9/3/21, 9/8/21, 9/9/21	No
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/21/21, 8/24/21	8/31/21, 9/2/21, 9/7/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC batch 766505, MB 4084565 *had detections of CdTR, MoTR, and ZnTR ≤1.5X the MDL. Blank detections ≤1.5X the MDL are not further assessed per TREC data validation guidelines.*

QC batch 766506, MB 4084571 *had a ZnTR detections ≤1.5X the MDL and CuTR and PbTR detections >1.5X the MDL. All samples in this QC batch had CuTR and PbTR results >10X the MB detections.*

QC batch 766501, MB 4084545 *and* ***QC batch 768140, MB 4093349*** *had MgDis detections ≤1.5X the MDL, thus were not further assessed per TREC data validation guidelines.*

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y___ N_X_
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of ICS problems.

QC batch 768140, LCS 4093350 *AgDis recovery was 116%. All samples in this QC batch had non-detect AgDis results; therefore, no qualifiers were applied.*

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Was MS result within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y___ N_X_
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y_X_ N___

Describe corrective actions taken because of MS problems.

QC batch 766505, MS 4084567 *AlTR and FeTR recoveries >130%.* ***MSD 4084568*** *FeTR and ZnTR recoveries <70%. Parent sample concentrations of AlTR and FeTR were >4X the spike levels; while, the parent sample ZnTR concentration was <4X the spike concentration. In the same QC batch,* ***MS 4084569*** *FeTR recovery was >130% and* ***MSD 4084570*** *AlTR, CuTR, and ZnTR recoveries were <70%. Parent sample concentrations of AlTR, FeTR, and MSD 4084570 ZnTR were >4X the spike concentrations; while MSD 4084568 ZnTR and MSD 4084570 CuTR parent sample concentrations were <4X the spike concentration. Recovery criteria are waived for parameters in which the parent sample concentration is >4X the spike concentration. Neither parent sample was project associated, so matrix similarity cannot be assessed. Therefore, associated ZnTR and CuTR results were not qualified based on these MS/MSD recoveries.*

QC batch 766508, MS 4084583 *AlTR and FeTR recoveries >130% and the RPDs between* ***MS 4084583 and MSD 4084584*** *AlTR and FeTR results were >20%. In both cases, the parent sample concentrations were <4X the spike concentrations. The parent sample for this MS/MSD, SWWW0314, was collected upstream of a point source discharge. Water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Samples SWWW0313-SWWW0322 were collected upstream of the discharge, while remaining samples in this QC batch were collected downstream of the discharge, or were a field blank. Samples SWWW0313-SWWW0322 were considered of a similar matrix to the parent sample; therefore, AlTR and FeTR for these samples were qualified J+ and assigned the codes "MS,RPD" for neither laboratory accuracy nor precision being met.*

QC batch 766500, MS 4084541 *CaDis recovery <70%. The parent sample concentration was >4X the spike concentration so recovery criteria were waived.*

QC batch 766501, MSD 4084548 *CaDis recovery >130% and* ***MS 4084549*** *CaDis recovery <70%. The parent sample concentrations were >4X the spike concentration so recovery criteria were waived.*

QC batch 768140, MS4093353 *CaDis recovery <70%. The parent sample concentration was >4X the spike concentration so recovery criteria were waived.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576060
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as CaCO3
Sample Date(s):	8/21/21, 8/24/21	**Analysis Date(s):**	9/2/21, 9/3/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0293-082121	10576060001	767917	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	767917	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	767917	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	767917	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	767917	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	767917	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	767917	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	767917	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	767917	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	767917	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	767917	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	767917	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	767917	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	767917	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	767917	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	767917	IS3	SWWW0306-082421	SWWW0308
SWWW0309-082121	10576060017	767917	IS2	SWWW0306-082421	SWWW0309
SWWW0310-082121	10576060018	767917	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	767917	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	767917	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	768071	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	768071	IS1	SWWW0306-082421	SWWW0314
SWWW0315-082121	10576060023	768071	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	768071	IS3	SWWW0328-082421	SWWW0316
SWWW0317-082121	10576060025	768071	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	768071	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	768071	IS4	SWWW0328-082421	SWWW0319
SWWW0320-082121	10576060028	768071	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	768071	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	768071	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	768071	IS4	SWWW0328-082421	SWWW0323
SWWW0324-082121	10576060032	768071	IS3	SWWW0328-082421	SWWW0324

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

SWWW0325-082121	10576060033	768071	IS2	SWWW0328-082421	SWWW0325
SWWW0326-082121	10576060034	768071	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	768071	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	768071	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	768071	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	768071	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	768071	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	768071	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	768076	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	768076	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	768076	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	768076	IS1	SWWW0328-082421	SWWW0336

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/21/21, 8/24/21	9/2/21, 9/3/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC batch 767917, MB 4092308 *had a detection <1.5 X the MDL. Blank detections ≤1.5X the MDL are not assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS/LCSD within control window of 90-110% recovery? Y_X_ N___

Was LCS/LCSD ≤ 20% RPD? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Was MS result within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Was MSD sample analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576060
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids (TDS) Total Suspended Solids (TSS)
Sample Date(s):	8/21/21, 8/24/21	**Analysis Date(s):**	8/27/21, 8/27/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWWW0293-082121	10576060001	766443	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	766443	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	766443	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	766443	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	766443	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	766443	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	766443	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	766443	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	766443	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	766443	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	766443	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	766443	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	766443	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	766443	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	766443	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	766443	IS3	SWWW0306-082421	SWWW0308
SWWW0309-082121	10576060017	766443	IS2	SWWW0306-082421	SWWW0309
SWWW0310-082121	10576060018	766443	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	766443	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	766443	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	766444	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	766444	IS1	SWWW0306-082421	SWWW0314
SWWW0315-082121	10576060023	766444	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	766444	IS3	SWWW0328-082421	SWWW0316
SWWW0317-082121	10576060025	766444	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	766444	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	766444	IS4	SWWW0328-082421	SWWW0319

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0320-082121	10576060028	766444	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	766444	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	766444	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	766444	IS4	SWWW0328-082421	SWWW0323
SWWW0324-082121	10576060032	766444	IS3	SWWW0328-082421	SWWW0324
SWWW0325-082121	10576060033	766444	IS2	SWWW0328-082421	SWWW0325
SWWW0326-082121	10576060034	766444	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	766444	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	766444	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	766444	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	766444	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	766444	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	766444	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	766446	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	766446	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	766446	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	766446	IS1	SWWW0328-082421	SWWW0336
Total Suspended Solids (TSS)					
SWWW0293-082121	10576060001	766440	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	766440	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	766440	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	766440	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	766440	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	766440	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	766440	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	766440	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	766440	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	766440	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	766440	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	766440	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	766440	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	766440	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	766440	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	766440	IS3	SWWW0306-082421	SWWW0308
SWWW0309-082121	10576060017	766440	IS2	SWWW0306-082421	SWWW0309

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0310-082121	10576060018	766440	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	766440	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	766440	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	766445	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	766445	IS1	SWWW0306-082421	SWWW0314
SWWW0315-082121	10576060023	766445	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	766445	IS3	SWWW0328-082421	SWWW0316
SWWW0317-082121	10576060025	766445	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	766445	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	766445	IS4	SWWW0328-082421	SWWW0319
SWWW0320-082121	10576060028	766445	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	766445	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	766445	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	766445	IS4	SWWW0328-082421	SWWW0323
SWWW0324-082121	10576060032	766445	IS3	SWWW0328-082421	SWWW0324
SWWW0325-082121	10576060033	766445	IS2	SWWW0328-082421	SWWW0325
SWWW0326-082121	10576060034	766445	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	766445	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	766445	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	766445	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	766445	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	766445	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	766445	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	766448	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	766448	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	766448	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	766448	IS1	SWWW0328-082421	SWWW0336

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/21/21, 8/24/21	8/27/21	No
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/21/21, 8/24/21	8/27/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y___ N_____ NA_X_
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y___ N_X_
Were any data flagged because of LDS problems?	Y_X_ N___

Describe corrective actions taken because of LDS problems.

***TSS QC batch 766445**, laboratory duplicate **4084238** had >10% RPD between the parent and duplicate sample TSS results. TSS results in associated samples SWWW0313-SWWW0321, SWWW0323-SWWW0327, and SWWW0329-SWWW0332 were > the MDL and qualified J. The TSS result in SWWW0322 was < the MDL and qualified UJ. Aside from the field blank, matrix similarity is not considered for gravimetric analyses since these analyses are not prone to chemical interference.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576060
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	8/21/21, 8/24/21	**Analysis Date(s):**	9/9/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0293-082121	10576060001	769076	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	769076	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	769076	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	769076	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	769076	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	769076	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	769076	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	769076	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	769076	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	769076	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	769076	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	769076	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	769076	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	769076	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	769076	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	769076	IS3	SWWW0306-082421	SWWW0308
SWWW0309-082121	10576060017	769076	IS2	SWWW0306-082421	SWWW0309
SWWW0310-082121	10576060018	769076	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	769076	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	769076	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	769077	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	769077	IS1	SWWW0306-082421	SWWW0314
SWWW0315-082121	10576060023	769077	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	769077	IS3	SWWW0328-082421	SWWW0316
SWWW0317-082121	10576060025	769077	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	769077	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	769077	IS4	SWWW0328-082421	SWWW0319
SWWW0320-082121	10576060028	769077	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	769077	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	769077	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	769077	IS4	SWWW0328-082421	SWWW0323

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

SWWW0324-082121	10576060032	769077	IS3	SWWW0328-082421	SWWW0324
SWWW0325-082121	10576060033	769077	IS2	SWWW0328-082421	SWWW0325
SWWW0326-082121	10576060034	769077	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	769077	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	769077	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	769077	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	769077	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	769077	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	769077	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	769080	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	769080	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	769080	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	769080	IS1	SWWW0328-082421	SWWW0336

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/21/21, 8/24/21	9/9/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576060
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	8/21/21, 8/24/21	**Analysis Date(s):**	9/2/21, 9/7/21, 9/10/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0293-082121	10576060001	767242	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	767242	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	767242	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	768420	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	768420	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	768420	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	768420	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	768420	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	768420	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	768420	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	768420	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	768420	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	768420	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	768420	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	768420	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	768420	IS3	SWWW0306-082421	SWWW0308
SWWW0309-082121	10576060017	768420	IS2	SWWW0306-082421	SWWW0309
SWWW0310-082121	10576060018	768420	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	768420	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	768420	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	768420	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	768420	IS1	SWWW0306-082421	SWWW0314

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWWW0315-082121	10576060023	768420	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	768421	IS3	SWWW0328-082421	SWWW0316
SWWW0317-082121	10576060025	768421	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	768421	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	768421	IS4	SWWW0328-082421	SWWW0319
SWWW0320-082121	10576060028	768421	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	768421	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	768421	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	768421	IS4	SWWW0328-082421	SWWW0323
SWWW0324-082121	10576060032	768421	IS3	SWWW0328-082421	SWWW0324
SWWW0325-082121	10576060033	768422	IS2	SWWW0328-082421	SWWW0325
SWWW0326-082121	10576060034	768422	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	768422	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	768422	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	768422	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	768422	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	768422	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	768422	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	768422	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	768422	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	768422	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	768422	IS1	SWWW0328-082421	SWWW0336

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	8/21/21, 8/24/21	9/2/21, 9/7/21, 9/10/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC batch 767242, MS 4088564 and MSD 4088565 *recoveries were >120%. The parent sample for this MS/MSD was not project associated, so matrix similarity cannot be deteremined. Therefore, associated sulfate results were not qualified.*

QC batch 768420, MSD 4094944 *recovery was >120%. The parent sample for this MS/MSD, SWWW0297, was collected downstream of a point source discharge as were samples SWWW0298-SWWW0305 and SWWW0307-SWWW0310. The remaining samples in this QC batch were collected upstream of the discharge or were a field blank. Water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Sulfate results in samples SWWW0297-SWWW0305 and SWWW0307-SWWW0310 were > the MDL and qualified J+. Sulfate results in the remaining samples in this QC batch were not qualified since they are considered to be of a differing matrix.*

QC batch 768422, MS 4094953 *recovery was <80%. The parent sample for this MS was not project associated. Since matrix similarity cannot be assessed, associated sulfate results were not qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576060
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness, Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn, Alkalinity: Total as CaCO3, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Nitrate/Nitrate (NO2/NO3), Sulfate (SO4)
Sample Date(s):	8/21/21, 8/24/21		
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0293-082121	10576060001	IS4	SWWW0306-082421	SWWW0293
SWWW0294-082121	10576060002	IS3	SWWW0306-082421	SWWW0294
SWWW0295-082121	10576060003	IS2	SWWW0306-082421	SWWW0295
SWWW0296-082121	10576060004	IS1	SWWW0306-082421	SWWW0296
SWWW0297-082121	10576060005	IS4	SWWW0306-082421	SWWW0297
SWWW0298-082121	10576060006	IS3	SWWW0306-082421	SWWW0298
SWWW0299-082121	10576060007	IS2	SWWW0306-082421	SWWW0299
SWWW0300-082121	10576060008	IS1	SWWW0306-082421	SWWW0300
SWWW0301-082121	10576060009	IS4	SWWW0306-082421	SWWW0301
SWWW0302-082121	10576060010	IS3	SWWW0306-082421	SWWW0302
SWWW0303-082121	10576060011	IS2	SWWW0306-082421	SWWW0303
SWWW0304-082121	10576060012	IS1-N	SWWW0306-082421	SWWW0304
SWWW0305-082121	10576060013	IS1-D	SWWW0306-082421	SWWW0305
SWWW0306-082421	10576060014	FB	SWWW0306-082421	SWWW0306
SWWW0307-082121	10576060015	IS4	SWWW0306-082421	SWWW0307
SWWW0308-082121	10576060016	IS3	SWWW0306-082421	SWWW0308
SWWW0309-082121	10576060017	IS2	SWWW0306-082421	SWWW0309
SWWW0310-082121	10576060018	IS1	SWWW0306-082421	SWWW0310
SWWW0311-082121	10576060019	IS4	SWWW0306-082421	SWWW0311
SWWW0312-082121	10576060020	IS3	SWWW0306-082421	SWWW0312
SWWW0313-082121	10576060021	IS2	SWWW0306-082421	SWWW0313
SWWW0314-082121	10576060022	IS1	SWWW0306-082421	SWWW0314
SWWW0315-082121	10576060023	IS4	SWWW0328-082421	SWWW0315
SWWW0316-082121	10576060024	IS3	SWWW0328-082421	SWWW0316
SWWW0317-082121	10576060025	IS2	SWWW0328-082421	SWWW0317
SWWW0318-082121	10576060026	IS1	SWWW0328-082421	SWWW0318
SWWW0319-082121	10576060027	IS4	SWWW0328-082421	SWWW0319
SWWW0320-082121	10576060028	IS3	SWWW0328-082421	SWWW0320
SWWW0321-082121	10576060029	IS2	SWWW0328-082421	SWWW0321
SWWW0322-082121	10576060030	IS1	SWWW0328-082421	SWWW0322
SWWW0323-082121	10576060031	IS4	SWWW0328-082421	SWWW0323
SWWW0324-082121	10576060032	IS3	SWWW0328-082421	SWWW0324
SWWW0325-082121	10576060033	IS2	SWWW0328-082421	SWWW0325

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWWW0326-082121	10576060034	IS1-N	SWWW0328-082421	SWWW0326
SWWW0327-082121	10576060035	IS1-D	SWWW0328-082421	SWWW0327
SWWW0328-082421	10576060036	FB	SWWW0328-082421	SWWW0328
SWWW0329-082121	10576060037	IS4	SWWW0328-082421	SWWW0329
SWWW0330-082121	10576060038	IS3	SWWW0328-082421	SWWW0330
SWWW0331-082121	10576060039	IS2	SWWW0328-082421	SWWW0331
SWWW0332-082121	10576060040	IS1	SWWW0328-082421	SWWW0332
SWWW0333-082121	10576060041	IS4	SWWW0328-082421	SWWW0333
SWWW0334-082121	10576060042	IS3	SWWW0328-082421	SWWW0334
SWWW0335-082121	10576060043	IS2	SWWW0328-082421	SWWW0335
SWWW0336-082121	10576060044	IS1	SWWW0328-082421	SWWW0336

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/21/21, 8/24/21	9/1/21
Total Mercury	Aqueous	EPA 245.1	8/21/21, 8/24/21	9/7/21, 9/8/21
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	8/21/21, 8/24/21	9/1/21-9/3/21, 9/8/21, 9/9/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/21/21, 8/24/21	8/31/21, 9/2/21, 9/7/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/21/21, 8/24/21	9/2/21, 9/3/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/21/21, 8/24/21	8/27/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/21/21, 8/24/21	8/27/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/21/21, 8/24/21	9/9/21
Sulfate (SO4)	Aqueous	ASTM D516	8/21/21, 8/24/21	9/2/21, 9/7/21, 9/10/21

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y___ N_X_

Field blank (FB) SWWW0306 had detections of alkalinity and CdTR at concentrations <1.5X the MDL. FB SWWW0328 had a hardness detection <1.5X the MDL. Blank detections ≤1.5X the MDL are not assessed per TREC data validation guidelines.

FB SWWW0306 had a PbTR detection >1.5X the MDL. All PbTR results in associated samples were >10X the FB detection; thus, no qualifiers were applied based on FB SWWW0306.

FB SWWW0328 had detections of MgDis and PbTR >1.5X the MDL. All MgDis and PbTR results in associated samples were >10X the FB detection; thus, no qualifiers were applied based on FB SWWW0328.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Field duplicate set SWWW0304/SWWW0305 had RPDs >20% for CdDis and PbDis. CdDis and PbDis results for both the primary and duplicate samples were <5X the RL and the differences between the results were < the RL; thus, precision criteria was met.

Field duplicate set SWWW0326/SWWW0327 had RPDs >20% for CuTR and TSS. TSS results for both the primary and duplicate sample were <5X the RL and the difference between the results was < the RL; thus, precision criteria was met for TSS. CuTR results for both the primary and duplicate sample were >5X the RL. Field duplicate set SWWW0326/SWWW0327 was collected downstream of a point source discharge, as were samples SWWW0323-SWWW0325 and SWWW0329-SWWW0336. Water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. The remaining samples in this QC batch were collected upstream of the discharge or were a field blank and considered to be of a dissimilar matrix. CuTR results in SWWW0323-SWWW0327 and SWWW0329-SWWW0336 were > the MDL and qualified J.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

DATA VALIDATION SUMMARY FOR SDG 10575368

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575368
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury; Total Mercury; Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness; Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Sulfate (SO4)
Sample Date(s):	8/18/21, 8/19/21		
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/18/21, 8/19/21	8/25/21
Total Mercury	Aqueous	EPA 245.1	8/18/21, 8/19/21	8/25/21
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	8/18/21, 8/19/21	8/25/21-8/27/21, 8/30/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/18/21, 8/19/21	8/27/21, 8/30/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/18/21, 8/19/21	8/31/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/18/21, 8/19/21	8/23/21-8/25/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/18/21, 8/19/21	8/23/21, 8/24/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/18/21, 8/19/21	8/23/21
Sulfate (SO4)	Aqueous	ASTM D516	8/18/21, 8/19/21	8/27/21, 9/2/21

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	784	672	633	39	
Percentage	100%	86%	94%	6%	0%

Analysis of this data set resulted in 672 primary sample data points. Of these, 633 had no quality control deficiences and met enforcement quality; while, 39 data points were assigned screening quality. Five data points were qualified for a MB detection, 20 data points were qualified for MS/MSD recoveries which did not meet acceptance criteria, two data points were qualified for a FB detection, and 12 data points were qualified for field duplicate results which did not meet precision criteria. All anticipated data was collected and no data were rejected; thus, completeness for this data set it 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575368
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	8/18/21, 8/19/21	**Analysis Date(s):**	8/25/21, 8/25/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWWW0265-081821	10575368001	765186	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	765186	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	765186	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	765186	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	765186	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	765186	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	765186	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	765186	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	765186	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	765186	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	765186	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	765186	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	765186	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	765186	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	765186	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	765186	IS3	SWWW0284-081921	SWWW0280
SWWW0281-081821	10575368017	765186	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	765186	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	765186	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	765186	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	765187	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	765187	IS3	SWWW0284-081921	SWWW0286
SWWW0287-081821	10575368023	765187	IS2	SWWW0284-081921	SWWW0287
SWWW0288-081821	10575368024	765187	IS1	SWWW0284-081921	SWWW0288

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0289-081821	10575368025	765187	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	765187	IS3	SWWW0284-081921	SWWW0290
SWWW0291-081821	10575368027	765187	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	765187	IS1	SWWW0284-081921	SWWW0292
Total Mercury					
SWWW0265-081821	10575368001	765190	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	765190	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	765190	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	765190	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	765190	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	765190	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	765190	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	765190	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	765190	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	765190	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	765190	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	765190	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	765190	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	765190	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	765190	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	765190	IS3	SWWW0284-081921	SWWW0280
SWWW0281-081821	10575368017	765190	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	765190	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	765190	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	765190	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	765191	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	765191	IS3	SWWW0284-081921	SWWW0286
SWWW0287-081821	10575368023	765191	IS2	SWWW0284-081921	SWWW0287
SWWW0288-081821	10575368024	765191	IS1	SWWW0284-081921	SWWW0288
SWWW0289-081821	10575368025	765191	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	765191	IS3	SWWW0284-081921	SWWW0290
SWWW0291-081821	10575368027	765191	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	765191	IS1	SWWW0284-081921	SWWW0292

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	8/18/21, 8/19/21	8/25/21	No
Total Mercury	Aqueous	EPA 245.1	8/18/21, 8/19/21	8/25/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Was MS/MSD within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575368
Matrix:	Aqueous	**Analysis:**	Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	8/18/21, 8/19/21	**Analysis Date(s):**	8/25/21-8/27/21, 8/30/21, 8/27/21, 8/30/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWWW0265-081821	10575368001	765159	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	765159	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	765159	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	765159	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	765159	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	765159	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	765159	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	765159	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	765159	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	765159	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	765159	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	765159	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	765159	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	765159	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	765159	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	765159	IS3	SWWW0284-081921	SWWW0280
SWWW0281-081821	10575368017	765159	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	765159	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	765159	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	765159	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	765160	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	765160	IS3	SWWW0284-081921	SWWW0286
SWWW0287-081821	10575368023	765160	IS2	SWWW0284-081921	SWWW0287
SWWW0288-081821	10575368024	765160	IS1	SWWW0284-081921	SWWW0288
SWWW0289-081821	10575368025	765160	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	765160	IS3	SWWW0284-081921	SWWW0290
SWWW0291-081821	10575368027	765160	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	765160	IS1	SWWW0284-081921	SWWW0292
Total Metals					
SWWW0265-081821	10575368001	765155	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	765155	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	765155	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	765155	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	765155	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	765155	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	765155	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	765155	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	765155	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	765155	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	765155	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	765155	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	765155	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	765155	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	765155	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	765155	IS3	SWWW0284-081921	SWWW0280

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0281-081821	10575368017	765155	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	765155	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	765155	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	765155	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	765156	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	765156	IS3	SWWW0284-081921	SWWW0286
SWWW0287-081821	10575368023	765156	IS2	SWWW0284-081921	SWWW0287
SWWW0288-081821	10575368024	765156	IS1	SWWW0284-081921	SWWW0288
SWWW0289-081821	10575368025	765156	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	765156	IS3	SWWW0284-081921	SWWW0290
SWWW0291-081821	10575368027	765156	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	765156	IS1	SWWW0284-081921	SWWW0292

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	8/18/21, 8/19/21	8/25/21-8/27/21, 8/30/21	No
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/18/21, 8/19/21	8/27/21, 8/30/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y_X_ N___

Describe corrective actions taken because of blank problems.

QC batch 764155, MB 4078773 *had a CdTR detection >1.5X the MDL. CdTR results in SWWW0274 and SWWW0281-SWWW0284 were ≥ the MDL but ≤ the RL and qualified UJ. CdTR results in SWWW0278-SWWW0280 were > the RL but <10X the MB detection and qualified J+. The remaining CdTR results in this QC batch were >10X the MB detection.*

QC batch 765156, MB 4078778 *had a CdTR detection <1.5X the MDL. Blank detections ≤ 1.5X the MDL are not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Was MS result within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

QC batch 765159, MS 4078795 and MSD 4078796 *CaDis recoveries >130% and MgDis recoveries <70%. The parent sample concentration for CaDis was >4X the spike concentration, so recovery criteria were waived for CaDis. The parent sample MgDis concentration was <4X the spike concentration. The parent sample for the MS/MSD, SWWW0265, was collected downstream of a point source discharge. Water chemistry downstream of the discharge differs from water chemistry upstream of the discharge. Samples SWWW0265-SWWW0278 (excluding SWWW0274 the FB) were collected downstream of the discharge, while samples SWWW0279-SWWW0283 were collected upstream of the discharge and considered to be of a differing matrix. MgDis results in SWWW0265-SWWW0273 and SWWW0275-SWWW0278 were > the MDL and qualified J-.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575368
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as CaCO3
Sample Date(s):	8/18/21, 8/19/21	**Analysis Date(s):**	8/31/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0265-081821	10575368001	767175	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	767175	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	767175	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	767175	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	767175	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	767175	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	767175	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	767175	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	767175	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	767175	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	767175	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	767175	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	767175	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	767175	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	767175	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	767175	IS3	SWWW0284-081921	SWWW0280
SWWW0281-081821	10575368017	767175	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	767175	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	767175	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	767175	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	767253	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	767253	IS3	SWWW0284-081921	SWWW0286
SWWW0287-081821	10575368023	767253	IS2	SWWW0284-081921	SWWW0287
SWWW0288-081821	10575368024	767253	IS1	SWWW0284-081921	SWWW0288

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

SWWW0289-081821	10575368025	767253	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	767253	IS3	SWWW0284-081921	SWWW0290
SWWW0291-081821	10575368027	767253	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	767253	IS1	SWWW0284-081921	SWWW0292

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/18/21, 8/19/21	8/31/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC batch 767175, MB 4088174 *had a detection <1.5X the MDL, which was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS/LCSD within control window of 90-110% recovery? Y_X_ N___

Was LCS/LCSD ≤ 20% RPD? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Was MS result within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Was MSD sample analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575368
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids (TDS) Total Suspended Solids (TSS)
Sample Date(s):	8/18/21, 8/19/21	**Analysis Date(s):**	8/23/21-8/25/21, 8/23/21, 8/24/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWWW0265-081821	10575368001	765034	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	765034	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	765034	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	765034	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	765034	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	765034	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	765034	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	765402	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	765402	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	765772	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	765402	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	765402	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	765402	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	765402	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	765402	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	765402	IS3	SWWW0284-081921	SWWW0280
SWWW0281-081821	10575368017	765402	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	765402	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	765402	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	765772	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	765402	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	765402	IS3	SWWW0284-081921	SWWW0286
SWWW0287-081821	10575368023	765402	IS2	SWWW0284-081921	SWWW0287
SWWW0288-081821	10575368024	765402	IS1	SWWW0284-081921	SWWW0288

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0289-081821	10575368025	765402	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	765402	IS3	SWWW0284-081921	SWWW0290
SWWW0291-081821	10575368027	765402	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	765402	IS1	SWWW0284-081921	SWWW0292
Total Suspended Solids (TSS)					
SWWW0265-081821	10575368001	765039	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	765039	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	765039	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	765039	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	765039	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	765039	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	765039	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	765039	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	765039	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	765046	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	765039	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	765039	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	765039	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	765039	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	765039	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	765039	IS3	SWWW0284-081921	SWWW0280
SWWW0281-081821	10575368017	765039	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	765039	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	765039	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	765046	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	765039	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	765039	IS3	SWWW0284-081921	SWWW0286
SWWW0287-081821	10575368023	765046	IS2	SWWW0284-081921	SWWW0287
SWWW0288-081821	10575368024	765046	IS1	SWWW0284-081921	SWWW0288
SWWW0289-081821	10575368025	765046	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	765046	IS3	SWWW0284-081921	SWWW0290
SWWW0291-081821	10575368027	765046	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	765046	IS1	SWWW0284-081921	SWWW0292

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/18/21, 8/19/21	8/23/21-8/25/21	No
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/18/21, 8/19/21	8/23/21, 8/24/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

TDS QC batch 765402, MB 4079717 *had a detection at the MDL, which was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575368
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	8/18/21, 8/19/21	**Analysis Date(s):**	8/23/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0265-081821	10575368001	765361	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	765361	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	765361	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	765361	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	765361	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	765361	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	765361	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	765361	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	765361	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	765361	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	765361	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	765361	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	765361	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	765361	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	765361	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	765362	IS3	SWWW0284-081921	SWWW0280
SWWW0281-081821	10575368017	765362	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	765362	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	765362	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	765362	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	765362	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	765362	IS3	SWWW0284-081921	SWWW0286
SWWW0287-081821	10575368023	765362	IS2	SWWW0284-081921	SWWW0287

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

SWWW0288-081821	10575368024	765362	IS1	SWWW0284-081921	SWWW0288
SWWW0289-081821	10575368025	765362	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	765362	IS3	SWWW0284-081921	SWWW0290
SWWW0291-081821	10575368027	765362	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	765362	IS1	SWWW0284-081921	SWWW0292

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/18/21, 8/19/21	8/23/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575368
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	8/18/21, 8/19/21	**Analysis Date(s):**	8/27/21, 9/2/21
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0265-081821	10575368001	766357	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	766357	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	766357	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	766357	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	766357	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	767229	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	767229	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	767229	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	767229	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	767229	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	767229	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	767229	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	767229	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	767229	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	767229	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	767229	IS3	SWWW0284-081921	SWWW0280
SWWW0281-081821	10575368017	767229	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	767229	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	767229	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	767229	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	767229	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	767229	IS3	SWWW0284-081921	SWWW0286

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWWW0287-081821	10575368023	767229	IS2	SWWW0284-081921	SWWW0287
SWWW0288-081821	10575368024	767229	IS1	SWWW0284-081921	SWWW0288
SWWW0289-081821	10575368025	767229	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	767233	IS3	SWWW0284-081921	SWWW0290
SWWW0291-081821	10575368027	767233	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	767233	IS1	SWWW0284-081921	SWWW0292

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	8/18/21, 8/19/21	8/27/21, 9/2/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were the LCS/LCSD within control window of 80-120% recovery? Y_X_ N___

Was the LCS/LCSD ≤ 20% relative percent difference (RPD)? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC batch 766357, MS 4083820 and MSD 4083821 *recoveries <30%, but the parent sample concentration was >4X the spike concentration, so recovery criteria were waived. In the same QC batch,* ***MS 4083822 and MSD 4083823*** *recoveries <30% and the parent sample concentration was <4X the spike concentration. Sulfate results in associated samples SWWW0265-SWWW0269 were > the MDL and qualified J-.*

QC batch 767233, MS 4088533 and MSD 4088534 *recoveries <80%. Sulfate results in associated samples SWWW0290-SWWW0292 were > the MDL and qualified J-. In the same QC batch,* ***MS 4088535 and MSD 4088536*** *recoveries >120%, but the parent sample was not project associated, so no sulfate results were qualified based on these MS/MSD recoveries since matrix similarity cannot be assessed.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575368
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness, Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn, Alkalinity: Total as CaCO3, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Nitrate/Nitrate (NO2/NO3), Sulfate (SO4)
Sample Date(s):	8/18/21, 8/19/21		
Data Validator:	Tina Donovan	**Validation Date:**	12/15/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0265-081821	10575368001	IS4	SWWW0274-081921	SWWW0265
SWWW0266-081821	10575368002	IS3	SWWW0274-081921	SWWW0266
SWWW0267-081821	10575368003	IS2	SWWW0274-081921	SWWW0267
SWWW0268-081821	10575368004	IS1	SWWW0274-081921	SWWW0268
SWWW0269-081821	10575368005	IS4	SWWW0274-081921	SWWW0269
SWWW0270-081821	10575368006	IS3	SWWW0274-081921	SWWW0270
SWWW0271-081821	10575368007	IS2	SWWW0274-081921	SWWW0271
SWWW0272-081821	10575368008	IS1-N	SWWW0274-081921	SWWW0272
SWWW0273-081821	10575368009	IS1-D	SWWW0274-081921	SWWW0273
SWWW0274-081921	10575368010	FB	SWWW0274-081921	SWWW0274
SWWW0275-081821	10575368011	IS4	SWWW0274-081921	SWWW0275
SWWW0276-081821	10575368012	IS3	SWWW0274-081921	SWWW0276
SWWW0277-081821	10575368013	IS2	SWWW0274-081921	SWWW0277
SWWW0278-081821	10575368014	IS1	SWWW0274-081921	SWWW0278
SWWW0279-081821	10575368015	IS4	SWWW0284-081921	SWWW0279
SWWW0280-081821	10575368016	IS3	SWWW0284-081921	SWWW0280
SWWW0281-081821	10575368017	IS2	SWWW0284-081921	SWWW0281
SWWW0282-081821	10575368018	IS1-N	SWWW0284-081921	SWWW0282
SWWW0283-081821	10575368019	IS1-D	SWWW0284-081921	SWWW0283
SWWW0284-081921	10575368020	FB	SWWW0284-081921	SWWW0284
SWWW0285-081821	10575368021	IS4	SWWW0284-081921	SWWW0285
SWWW0286-081821	10575368022	IS3	SWWW0284-081921	SWWW0286
SWWW0287-081821	10575368023	IS2	SWWW0284-081921	SWWW0287
SWWW0288-081821	10575368024	IS1	SWWW0284-081921	SWWW0288
SWWW0289-081821	10575368025	IS4	SWWW0284-081921	SWWW0289
SWWW0290-081821	10575368026	IS3	SWWW0284-081921	SWWW0290

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWWW0291-081821	10575368027	IS2	SWWW0284-081921	SWWW0291
SWWW0292-081821	10575368028	IS1	SWWW0284-081921	SWWW0292
Analyte	**Matrix**	**Method**	**Collection Date**	**Analysis Date**
Dissolved Mercury	Aqueous	EPA 245.1	8/18/21, 8/19/21	8/25/21
Total Mercury	Aqueous	EPA 245.1	8/18/21, 8/19/21	8/25/21
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	8/18/21, 8/19/21	8/25/21-8/27/21, 8/30/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/18/21, 8/19/21	8/27/21, 8/30/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/18/21, 8/19/21	8/31/21
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/18/21, 8/19/21	8/23/21-8/25/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/18/21, 8/19/21	8/23/21, 8/24/21
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/18/21, 8/19/21	8/23/21
Sulfate (SO4)	Aqueous	ASTM D516	8/18/21, 8/19/21	8/27/21, 9/2/21

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

FB SWWW0274 *had detections of CaDis, CdTR, hardness, and NO2+NO3 at levels ≤ 1.5X the MDL, thus were not further assessed per TREC data validation guidelines.*

FB SWWW0274 *had a PbTR detection >1.5X the MDL. PbTR results in associated samples SWWW0265-SWWW0273 and SWWW0275-SWWW0278 were >10X the FB detection, so were not qualified.*

FB SWWW0284 *had a CdTR detection ≤ 1.5X the MDL, thus was not further assessed per TREC data validation guidelines.*

FB SWWW0284 *had PbTR and TDS detections >1.5X the MDL. PbTR results in associated samples SWWW0281-SWWW0283 were > the RL but < 10X the FB detection and qualified J+. Remaining associated PbTR results were >10X the FB detection. Associated TDS results for SWWW0279-SWWW0283 and SWWW0285-SWWW0292 were >10X the FB detection, so were not qualified.*

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Field duplicate set ***SWWW0272/SWWW0273*** *had >20% RPD for AgTR, FeDis, and TSS. Both the primary and duplicate sample AgTR and FeDis results were <5X the RL and the differences between the duplicate pair results were < the RL, meeting precision criteria. Both primary and duplicate TSS results were >5X the RL. TSS results for associated samples SWWW0265-SWWW0273 and SWWW0275-SWWW0278 were > the MDL and qualified J. In assessing solids (TDS and TSS) matrix similarity is not considered since gravimetric analyses are not prone to chemical interference.*

Field duplicate set ***SWWW0282/SWWW0283*** *had RPDs >20% for CdTR and PbDis results. Both the primary and duplicate sample CdTR and PbDis results were <5X the RL and the differences between the duplicate pair results were < the RL, meeting precision criteria.*

Field blanks are not qualified based on field precision since DI water is so dissimilar to a native sample.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

DATA VALIDATION SUMMARY FOR SDG 10574117

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574117
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury; Total Mercury; Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn; Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Sulfate (SO4)
Sample Date(s):	8/8/2021-8/10/2021		
Data Validator:	Michele Bay	**Validation Date:**	10/4/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/8/2021-8/10/2021	8/19/2021
Total Mercury	Aqueous	EPA 245.1	8/8/2021-8/10/2021	8/19/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	8/8/2021-8/10/2021	8/18/2021, 8/19/2021, 8/23/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/8/2021-8/10/2021	8/19/2021, 8/23/21-8/25/21, 9/1/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/8/2021-8/10/2021	8/19/2021, 8/20/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/8/2021-8/10/2021	8/12/2021, 8/13/2021, 8/15/2021, 8/16/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/8/2021-8/10/2021	8/13/2021, 8/16/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/8/2021-8/10/2021	8/18/2021, 8/23/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/8/2021-8/10/2021	8/19/2021, 8/20/2021, 8/23/2021, 8/25/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	1232	1120	1056	64	0
Percentage	100%	91%	94%	6%	0%

Analyses for this data set resulted with 1120 natural data points. Of these, 1056 (94%) had no quality control deficiencies and are defined as enforcement quality while, 64 (6%) had quality control deficiencies and are defined as screening quality. Of the 64 qualified data points; 21 were coded "MS" due to laboratory accuracy criteria not being met, 38 were coded "RPD" due to laboratory precision criteria not being met, and five were coded "FB" due to field accuracy criteria not being met. All anticipated data was collected thus, completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574117
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	8/8/2021-8/10/2021	**Analysis Date(s):**	8/19/2021
Data Validator:	Michele Bay	**Validation Date:**	10/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWWW0221-080821	10574117001	763829	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	763829	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	763829	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	763829	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	763829	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	763829	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	763829	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	763829	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	763829	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	763829	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	763829	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	763829	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	763829	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	763829	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	763829	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	763829	IS3	SWWW0234-080921	SWWW0236
SWWW0237-080821	10574117017	763829	IS2	SWWW0234-080921	SWWW0237
SWWW0238-080821	10574117018	763829	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	763829	IS4	SWWW0234-080922	SWWW0239
SWWW0240-080821	10574117020	763829	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	763830	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	763830	IS1	SWWW0234-080925	SWWW0242
SWWW0243-080821	10574117023	763830	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	763830	IS3	SWWW0256-081021	SWWW0244

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0245-080821	10574117025	763830	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	763830	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	763830	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	763830	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	763830	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	763830	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	763830	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	763830	IS3	SWWW0256-081021	SWWW0252
SWWW0253-080821	10574117033	763830	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	763830	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	763830	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	763830	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	763830	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	763830	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	763830	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	763830	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	763832	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	763832	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	763832	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	763832	IS1	SWWW0256-081021	SWWW0264
Total Mercury					
SWWW0221-080821	10574117001	763891	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	763891	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	763891	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	763891	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	763891	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	763891	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	763891	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	763891	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	763891	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	763891	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	763891	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	763891	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	763891	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	763891	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	763891	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	763891	IS3	SWWW0234-080921	SWWW0236

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0237-080821	10574117017	763891	IS2	SWWW0234-080921	SWWW0237
SWWW0238-080821	10574117018	763891	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	763891	IS4	SWWW0234-080922	SWWW0239
SWWW0240-080821	10574117020	763891	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	763892	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	763892	IS1	SWWW0234-080925	SWWW0242
SWWW0243-080821	10574117023	763892	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	763892	IS3	SWWW0256-081021	SWWW0244
SWWW0245-080821	10574117025	763892	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	763892	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	763892	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	763892	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	763892	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	763892	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	763892	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	763892	IS3	SWWW0256-081021	SWWW0252
SWWW0253-080821	10574117033	763892	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	763892	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	763892	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	763892	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	763892	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	763892	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	763892	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	763892	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	763894	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	763894	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	763894	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	763894	IS1	SWWW0256-081021	SWWW0264

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	8/8/2021-8/10/2021	8/19/2021	No
Total Mercury	Aqueous	EPA 245.1	8/8/2021-8/10/2021	8/19/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Was MS/MSD within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10574117	
Matrix:	Aqueous		**Analysis:**	Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	
Sample Date(s):	8/8/2021-8/10/2021		**Analysis Date(s):**	8/18,2021, 8/19/2021, 8/23/2021, 8/24/2021, 9/1/2021	
Data Validator:	Michele Bay		**Validation Date:**	10/4/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWWW0221-080821	10574117001	763825	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	763825	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	763825	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	763825	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	763825	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	763825	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	763825	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	763825	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	763825	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	763825	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	763825	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	763825	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	763825	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	763825	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	763825	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	763825	IS3	SWWW0234-080921	SWWW0236
SWWW0237-080821	10574117017	763825	IS2	SWWW0234-080921	SWWW0237
SWWW0238-080821	10574117018	763825	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	763825	IS4	SWWW0234-080922	SWWW0239

SWWW0240-080821	10574117020	763825	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	763826	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	763826	IS1	SWWW0234-080925	SWWW0242
SWWW0243-080821	10574117023	763826	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	763826	IS3	SWWW0256-081021	SWWW0244
SWWW0245-080821	10574117025	763826	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	763826	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	763826	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	763826	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	763826	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	763826	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	763826	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	763826	IS3	SWWW0256-081021	SWWW0252
SWWW0253-080821	10574117033	763826	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	763826	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	763826	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	763826	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	763826	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	763826	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	763826	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	763826	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	763828	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	763828	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	763828	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	763828	IS1	SWWW0256-081021	SWWW0264
Total Metals					
SWWW0221-080821	10574117001	763880	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	767016	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	763880	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	763880	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	763880	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	763880	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	763880	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	763880	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	763880	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	763880	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	763880	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	763880	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	763880	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	767016	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	763880	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	763880	IS3	SWWW0234-080921	SWWW0236
SWWW0237-080821	10574117017	763880	IS2	SWWW0234-080921	SWWW0237

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0238-080821	10574117018	763880	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	763880	IS4	SWWW0234-080922	SWWW0239
SWWW0240-080821	10574117020	763880	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	763883	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	763883	IS1	SWWW0234-080925	SWWW0242
SWWW0243-080821	10574117023	763883	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	763883	IS3	SWWW0256-081021	SWWW0244
SWWW0245-080821	10574117025	763883	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	763883	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	763883	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	763883	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	763883	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	763883	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	763883	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	763883	IS3	SWWW0256-081021	SWWW0252
SWWW0253-080821	10574117033	763883	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	763883	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	763883	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	763883	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	763883	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	763883	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	763883	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	763883	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	763896	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	763896	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	763896	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	763896	IS1	SWWW0256-081021	SWWW0264

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	8/8/2021-8/10/2021	8/18/2021, 8/19/2021, 8/23/21	No
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/8/2021-8/10/2021	8/19/2021, 8/23/21-8/25/21, 9/1/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 763880, *PbTR was detected in MB 4072671 at a concentration >1.5X MDL. Associated PbTR sample results were all >10X the MB value thus, were not qualified.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Was MS result within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 763825, *MS 4072545 CaDis recovery <70%, MSD 4072546 CaDis recovery >130%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentrations.*

QC Batch 763826, *MS 4072549 CaDis recovery >130%, MgDis recovery <70%, MSD 4072550 CaDis recovery >130%. No associated CaDis sample results were qualifed because the parent sample concentration was >4X the spike concentration. Associated MgDis sample results SWWW0241-SWWW0250 were ≥MDL and qualified J-. The parent sample (SWWW0243) was collected upstream of a point source discharge and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. The remaining samples in this QC batch were collected downstream of the discharge; thus MgDis results for samples SWWW0251-SWWW0255 and SWWW0257-SWWW0260 were not qualified based on MS recovery.*

QC Batch 763826, *MS 4072551 CaDis recovery <70%. No associated CaDis sample results were qualified because the parent sample concetration was >4X the spike concentration.*

QC Batch 763880, *MS 4072673 AlTR and FeTR recoveries >130%. Associated AlTR sample results SWWW0221, SWWW0223, SWWW0224, SWWW0239, and SWWW0240 were ≥MDL and qualified J+. The parent sample (SWWW0221) was collected upstream of a point source discharge and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. The remaining samples in this QC batch were collected downstream of the discharge; thus, AlTR results for SWWW 0225-SWWW0233 and SWWW0235-SWWW0238 were not qualifed based on MS recovery. No associated FeTR sample results were qualified because the parent sample concentration was >4X the spike concentration.*

QC Batch 763896, *MS 4072722 AlTR recovery >130%, but the parent sample was not project associated and matrix similarity could not be determined thus, no associated AlTR sample results were qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574117
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as CaCO3
Sample Date(s):	8/8/2021-8/10/2021	**Analysis Date(s):**	8/19/2021, 8/20/2021
Data Validator:	Michele Bay	**Validation Date:**	10/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0221-080821	10574117001	764614	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	764614	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	764614	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	764614	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	764614	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	764614	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	764614	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	764614	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	764614	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	764614	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	764614	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	764614	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	764614	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	765009	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	764614	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	764614	IS3	SWWW0234-080921	SWWW0236
SWWW0237-080821	10574117017	765009	IS2	SWWW0234-080921	SWWW0237
SWWW0238-080821	10574117018	764615	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	764615	IS4	SWWW0234-080922	SWWW0239
SWWW0240-080821	10574117020	764615	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	764615	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	764615	IS1	SWWW0234-080925	SWWW0242
SWWW0243-080821	10574117023	764615	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	764615	IS3	SWWW0256-081021	SWWW0244
SWWW0245-080821	10574117025	764615	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	765009	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	764615	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	764615	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	764615	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	764615	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	764615	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	764615	IS3	SWWW0256-081021	SWWW0252

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

SWWW0253-080821	10574117033	764615	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	764615	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	764615	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	765009	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	764615	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	764615	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	765009	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	765009	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	765009	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	765009	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	765009	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	764615	IS1	SWWW0256-081021	SWWW0264

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/8/2021-8/10/2021	8/19/2021, 8/20/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS/LCSD within control window of 90-110% recovery? Y_X_ N___

Was LCS/LCSD ≤ 20% RPD? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Was MS result within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Was MSD sample analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574117
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids (TDS) Total Suspended Solids (TSS)
Sample Date(s):	8/8/2021-8/10/2021	**Analysis Date(s):**	8/12/2021, 8/13/2021, 8/15/2021, 8/16/2021
Data Validator:	Michele Bay	**Validation Date:**	10/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWWW0221-080821	10574117001	762980	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	762980	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	762980	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	762980	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	762980	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	762980	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	762980	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	762980	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	762980	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	762980	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	762980	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	762980	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	762980	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	763427	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	762980	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	762980	IS3	SWWW0234-080921	SWWW0236
SWWW0237-080821	10574117017	762980	IS2	SWWW0234-080921	SWWW0237
SWWW0238-080821	10574117018	762980	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	762980	IS4	SWWW0234-080922	SWWW0239
SWWW0240-080821	10574117020	762980	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	762980	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	762982	IS1	SWWW0234-080925	SWWW0242
SWWW0243-080821	10574117023	762982	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	762982	IS3	SWWW0256-081021	SWWW0244

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0245-080821	10574117025	762982	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	762982	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	762982	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	762982	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	762982	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	762982	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	762982	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	762982	IS3	SWWW0256-081021	SWWW0252
SWWW0253-080821	10574117033	762982	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	762982	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	762982	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	763568	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	762982	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	762982	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	762982	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	762982	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	762982	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	762982	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	762988	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	762988	IS1	SWWW0256-081021	SWWW0264
Total Suspended Solids (TSS)					
SWWW0221-080821	10574117001	762981	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	762981	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	762981	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	762981	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	762981	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	762981	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	762981	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	762981	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	762981	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	762981	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	762981	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	762981	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	762981	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	763432	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	762981	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	762981	IS3	SWWW0234-080921	SWWW0236
SWWW0237-080821	10574117017	762981	IS2	SWWW0234-080921	SWWW0237

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0238-080821	10574117018	762981	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	762981	IS4	SWWW0234-080922	SWWW0239
SWWW0240-080821	10574117020	762981	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	762981	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	762985	IS1	SWWW0234-080925	SWWW0242
SWWW0243-080821	10574117023	762985	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	762985	IS3	SWWW0256-081021	SWWW0244
SWWW0245-080821	10574117025	762985	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	762985	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	762985	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	762985	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	762985	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	762985	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	762985	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	762985	IS3	SWWW0256-081021	SWWW0252
SWWW0253-080821	10574117033	762985	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	762985	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	762985	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	763619	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	762985	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	762985	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	762985	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	762985	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	762985	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	762985	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	762991	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	762991	IS1	SWWW0256-081021	SWWW0264

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/8/2021-8/10/2021	8/12/2021, 8/13/2021, 8/15/2021, 8/16/2021	No
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/8/2021-8/10/2021	8/13/2021, 8/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y_X_ N___

Describe corrective actions taken because of LDS problems.

***QC Batch 762980** , TDS sample 10574117001 and lab duplicate 4067795 RPD>10% and sample/duplicate results were >5X the RL. Associated TDS sample results SWWW0221-SWWW0233 and SWWW0235-SWWW0241 were ≥MDL and qualified J. Sample matrix is not considered for gravimetric analyses since filtration is not prone to chemical interference.*

***QC Batch 762981** , TSS sample 10574117015 and lab duplicate 4067800 RPD>10%, but the sample and duplicate results were <5X RL and the absolute difference between sample and duplicate results was <RL thus, no associated TSS sample results were qualified.*

***QC Batch 762982** , TDS sample 10574117023 and lab duplicate 4067804 RPD>10% and sample/duplicate results were >5X the RL. Associated TDS sample results SWWW0242-SWWW0255 and SWWW0257-SWWW0262 were ≥MDL and qualified J.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10574117	
Matrix:	Aqueous		**Analysis:**	Nitrate/Nitrate (NO2/NO3)	
Sample Date(s):	8/8/2021-8/10/2021		**Analysis Date(s):**	8/18/2021, 8/23/2021	
Data Validator:	Michele Bay		**Validation Date:**	10/4/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWWW0221-080821	10574117001	764275	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	764275	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	764275	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	764275	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	765249	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	765249	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	765249	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	765249	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	765249	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	765249	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	765249	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	765249	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	765249	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	765249	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	765249	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	765249	IS3	SWWW0234-080921	SWWW0236
SWWW0237-080821	10574117017	765249	IS2	SWWW0234-080921	SWWW0237
SWWW0238-080821	10574117018	765249	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	765249	IS4	SWWW0234-080922	SWWW0239
SWWW0240-080821	10574117020	765249	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	765249	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	765249	IS1	SWWW0234-080925	SWWW0242
SWWW0243-080821	10574117023	765249	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	765250	IS3	SWWW0256-081021	SWWW0244
SWWW0245-080821	10574117025	765250	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	765250	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	765250	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	765250	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	765250	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	765250	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	765250	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	765250	IS3	SWWW0256-081021	SWWW0252

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

SWWW0253-080821	10574117033	765250	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	765250	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	765250	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	765250	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	765250	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	765250	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	765250	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	765250	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	765250	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	765250	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	765250	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	765251	IS1	SWWW0256-081021	SWWW0264

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/8/2021-8/10/2021	8/18/2021, 8/23/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

***QC Batch 765251** , NO2+NO3 was detected in MB 4079063 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574117
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	8/8/2021-8/10/2021	**Analysis Date(s):**	8/19/2021, 8/20/2021, 8/23/2021, 8/25/2021
Data Validator:	Michele Bay	**Validation Date:**	10/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0221-080821	10574117001	764347	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	764347	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	764347	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	764347	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	764347	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	764347	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	764347	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	764347	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	764347	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	764347	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	764347	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	764632	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	764632	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	764632	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	764632	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	764632	IS3	SWWW0234-080921	SWWW0236
SWWW0237-080821	10574117017	764632	IS2	SWWW0234-080921	SWWW0237
SWWW0238-080821	10574117018	764632	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	764632	IS4	SWWW0234-080922	SWWW0239
SWWW0240-080821	10574117020	764632	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	764632	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	764632	IS1	SWWW0234-080925	SWWW0242

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWWW0243-080821	10574117023	764632	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	764632	IS3	SWWW0256-081021	SWWW0244
SWWW0245-080821	10574117025	764632	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	764632	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	764632	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	764632	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	764632	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	764632	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	764632	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	764633	IS3	SWWW0256-081021	SWWW0252
SWWW0253-080821	10574117033	764633	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	764633	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	764633	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	764633	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	766024	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	764633	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	766024	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	764633	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	764633	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	764633	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	764633	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	764633	IS1	SWWW0256-081021	SWWW0264

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	8/8/2021-8/10/2021	8/19/2021, 8/20/2021, 8/23/2021, 8/25/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 764347** , MS 4074423 MSD 4074424 and MS 4074425 MSD 4074426 recoveries <80%, but the parent samples were not project associated and matrix similarity could not be determined thus, no associated SO4 sample results were qualified based on MS recovery criteria.*

***QC Batch 764632** , MS 4075858 SO4 recovery <80%. Associated SO4 sample results SWWW0232, SWWW0233, SWWW0235-SWWW0238, and SWWW0251 were ≥MDL and qualified J-. The parent sample (SWWW 0235) was collected downstream of a point source discharge and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Samples SWWW0239-SWWW0250 were collected upstream of the discharge and judged to be of a dissimilar matrix to the MS parent sample. Therefore, sulfate results for SWWW0239-SWWW0250 were not qualified based on MS recovery.*

***QC Batch 766024** , MS 4082371 SO4 recovery <80%, but the parent sample was not project associated and matrix similarity could not be determined thus, no associated SO4 sample results were qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574117
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn, Alkalinity: Total as CaCO3, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Nitrate/Nitrate (NO2/NO3), Sulfate (SO4)
Sample Date(s):	8/8/2021-8/10/2021		
Data Validator:	Michele Bay	**Validation Date:**	10/4/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0221-080821	10574117001	IS4	SWWW0234-080921	SWWW0221
SWWW0222-080821	10574117002	IS3	SWWW0234-080921	SWWW0222
SWWW0223-080821	10574117003	IS2	SWWW0234-080921	SWWW0223
SWWW0224-080821	10574117004	IS1	SWWW0234-080921	SWWW0224
SWWW0225-080821	10574117005	IS4	SWWW0234-080921	SWWW0225
SWWW0226-080821	10574117006	IS3	SWWW0234-080921	SWWW0226
SWWW0227-080821	10574117007	IS2	SWWW0234-080921	SWWW0227
SWWW0228-080821	10574117008	IS1	SWWW0234-080921	SWWW0228
SWWW0229-080821	10574117009	IS4	SWWW0234-080921	SWWW0229
SWWW0230-080821	10574117010	IS3	SWWW0234-080921	SWWW0230
SWWW0231-080821	10574117011	IS2	SWWW0234-080921	SWWW0231
SWWW0232-080821	10574117012	IS1-N	SWWW0234-080921	SWWW0232
SWWW0233-080821	10574117013	IS1-D	SWWW0234-080921	SWWW0233
SWWW0234-080921	10574117014	FB	SWWW0234-080921	SWWW0234
SWWW0235-080821	10574117015	IS4	SWWW0234-080921	SWWW0235
SWWW0236-080821	10574117016	IS3	SWWW0234-080921	SWWW0236
SWWW0237-080821	10574117017	IS2	SWWW0234-080921	SWWW0237
SWWW0238-080821	10574117018	IS1	SWWW0234-080921	SWWW0238
SWWW0239-080821	10574117019	IS4	SWWW0234-080922	SWWW0239
SWWW0240-080821	10574117020	IS3	SWWW0234-080923	SWWW0240
SWWW0241-080821	10574117021	IS2	SWWW0234-080924	SWWW0241
SWWW0242-080821	10574117022	IS1	SWWW0234-080925	SWWW0242
SWWW0243-080821	10574117023	IS4	SWWW0256-081021	SWWW0243
SWWW0244-080821	10574117024	IS3	SWWW0256-081021	SWWW0244
SWWW0245-080821	10574117025	IS2	SWWW0256-081021	SWWW0245
SWWW0246-080821	10574117026	IS1	SWWW0256-081021	SWWW0246
SWWW0247-080821	10574117027	IS4	SWWW0256-081021	SWWW0247
SWWW0248-080821	10574117028	IS3	SWWW0256-081021	SWWW0248
SWWW0249-080821	10574117029	IS2	SWWW0256-081021	SWWW0249
SWWW0250-080821	10574117030	IS1	SWWW0256-081021	SWWW0250
SWWW0251-080821	10574117031	IS4	SWWW0256-081021	SWWW0251
SWWW0252-080821	10574117032	IS3	SWWW0256-081021	SWWW0252

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWWW0253-080821	10574117033	IS2	SWWW0256-081021	SWWW0253
SWWW0254-080821	10574117034	IS1-N	SWWW0256-081021	SWWW0254
SWWW0255-080821	10574117035	IS1-D	SWWW0256-081021	SWWW0255
SWWW0256-081021	10574117036	FB	SWWW0256-081021	SWWW0256
SWWW0257-080821	10574117037	IS4	SWWW0256-081021	SWWW0257
SWWW0258-080821	10574117038	IS3	SWWW0256-081021	SWWW0258
SWWW0259-080821	10574117039	IS2	SWWW0256-081021	SWWW0259
SWWW0260-080821	10574117040	IS1	SWWW0256-081021	SWWW0260
SWWW0261-080821	10574117041	IS4	SWWW0256-081021	SWWW0261
SWWW0262-080821	10574117042	IS3	SWWW0256-081021	SWWW0262
SWWW0263-080821	10574117043	IS2	SWWW0256-081021	SWWW0263
SWWW0264-080821	10574117044	IS1	SWWW0256-081021	SWWW0264

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/8/2021-8/10/2021	8/19/2021
Total Mercury	Aqueous	EPA 245.1	8/8/2021-8/10/2021	8/19/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	8/8/2021-8/10/2021	8/18/2021, 8/19/2021, 8/23/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/8/2021-8/10/2021	8/19/2021, 8/23/21-8/25/21, 9/1/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/8/2021-8/10/2021	8/19/2021, 8/20/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/8/2021-8/10/2021	8/12/2021, 8/13/2021, 8/15/2021, 8/16/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/8/2021-8/10/2021	8/13/2021, 8/16/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/8/2021-8/10/2021	8/18/2021, 8/23/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/8/2021-8/10/2021	8/19/2021, 8/20/2021, 8/23/2021, 8/25/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

*SO4 was detected in **FB SWWW0234** and CuTR was detected in **FB SWWW0256** at concentrations ≤1.5X MDL thus, were not further assessed per TREC data validation guidelines.*

*PbTR was detected in **FB SWWW0234** at a concentration >1.5X MDL. Associated PbTR sample results SWWW0222 and SWWW0241 were >RL, but ≤10X the FB value and were qualified J+. All other associated PbTR sample results were >10X the FB value and were not qualified.*

*CaDis, Hardness, MgDis, and PbTR were detected in **FB SWWW0256** at concentrations >1.5X MDL. Associated CaDis, Hardness, and MgDis sample results were all >10X the FB value and were not qualified. Associated PbTR sample results SWWW0246, SWWW0249, and SWWW250 were >RL, but ≤10X the FB value and were qualified J+. The remaining associated PbTR sample results were >10X the FB value and were not qualified.*

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y___ N_X_

Field duplicate set SWWW0254/SWWW0255 *CdTR RPD>20%, but the primary and duplicate sample results were <5X RL and the absolute difference between primary and duplicate sample results was <RL thus, no associated data were qualified.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

DATA VALIDATION SUMMARY FOR SDG 10562853

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562853
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury; Total Mercury; Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness; Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4)
Sample Date(s):	5/26/2021, 5/28/2021		
Data Validator:	Tina Donovan	**Validation Date:**	7/9/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	5/26/2021, 5/28/2021	6/14/2021
Total Mercury	Aqueous	EPA 245.1	5/26/2021, 5/28/2021	6/14/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	5/26/2021, 5/28/2021	6/14/2021-6/16/2021, 6/18/2021, 6/21/2021, 6/22/2021
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	5/26/2021, 5/28/2021	6/15/2021-6/18/2021, 6/21/2021, 6/22/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	5/26/2021, 5/28/2021	6/9/2021, 6/17/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	5/26/2021, 5/28/2021	6/2/2021, 6/4/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/26/2021, 5/28/2021	6/2/2021, 6/3/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	5/26/2021, 5/28/2021	6/4/2021, 6/16/2021
Sulfate (SO4)	Aqueous	ASTM D516	5/26/2021, 5/28/2021	6/14/2021, 6/15/2021

Were Level A field documentation and QA/QC practices met for this data set? Y_X_ N___

DATA VALIDATION SUMMARY FOR SDG 10562853

Were Level B field documentation and QA/QC practices met for this data set? Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	1232	1120	1066	54	
Percentage		91%	95%	5%	0%

Analysis of this data set resulted in 1120 natural sample data points. Of these, 1066 (95%) had no quality control deficiencies and are defined as enforcement quality. Fifty-four (5%) data points were assigned screening quality and none were rejected. Of the 54 data points defined as screening quality, 30 were qualified for MS/MSD recoveries which did not meet acceptance criteria, 4 were qualified for LCS recoveries which did not meet acceptance criteria, and 20 were qualified for field precision which did not meet acceptance criteria. All anticipated data was collected and considered usable, thus completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562853
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	5/26/2021, 5/28/2021	**Analysis Date(s):**	6/14/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/9/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWWW0045-052621	10562853001	748302	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	748302	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	748302	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	748302	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	748302	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	748302	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	748302	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	748302	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	748302	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	748302	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	748302	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	748302	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	748302	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	748302	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	748302	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	748302	IS3	SWWW0050-052821	SWWW0060
SWWW0061-052621	10562853017	748302	IS2	SWWW0050-052821	SWWW0061
SWWW0062-052621	10562853018	748302	IS1	SWWW0050-052821	SWWW0062
SWWW0063-052621	10562853019	748302	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	748302	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	748303	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	748303	IS1	SWWW0050-052821	SWWW0066
SWWW0067-052621	10562853023	748303	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	748303	IS3	SWWW0084-052821	SWWW0068

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0069-052621	10562853025	748303	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	748303	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	748303	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	748303	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	748303	IS2	SWWW0084-052821	SWWW0073
SWWW0074-052621	10562853030	748303	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	748303	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	748303	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	748303	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	748303	IS1	SWWW0084-052821	SWWW0078
SWWW0079-052621	10562853035	748303	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	748303	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	748303	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	748303	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	748303	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	748303	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	748305	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	748305	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	748305	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	748305	IS1	SWWW0084-052821	SWWW0088
Total Mercury					
SWWW0045-052621	10562853001	748306	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	748306	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	748306	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	748306	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	748306	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	748306	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	748306	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	748306	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	748306	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	748306	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	748306	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	748306	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	748306	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	748306	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	748306	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	748306	IS3	SWWW0050-052821	SWWW0060

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0061-052621	10562853017	748306	IS2	SWWW0050-052821	SWWW0061
SWWW0062-052621	10562853018	748306	IS1	SWWW0050-052821	SWWW0062
SWWW0063-052621	10562853019	748306	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	748306	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	748307	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	748307	IS1	SWWW0050-052821	SWWW0066
SWWW0067-052621	10562853023	748307	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	748307	IS3	SWWW0084-052821	SWWW0068
SWWW0069-052621	10562853025	748307	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	748307	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	748307	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	748307	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	748307	IS2	SWWW0084-052821	SWWW0073
SWWW0074-052621	10562853030	748307	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	748307	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	748307	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	748307	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	748307	IS1	SWWW0084-052821	SWWW0078
SWWW0079-052621	10562853035	748307	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	748307	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	748307	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	748307	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	748307	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	748307	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	748308	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	748308	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	748308	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	748308	IS1	SWWW0084-052821	SWWW0088

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	5/26/2021, 5/28/2021	6/14/2021	No
Total Mercury	Aqueous	EPA 245.1	5/26/2021, 5/28/2021	6/14/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Was MS/MSD within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10562853	
Matrix:	Aqueous		**Analysis:**	Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	
Sample Date(s):	5/26/2021, 5/28/2021		**Analysis Date(s):**	6/14/2021-6/16/2021, 6/18/2021, 6/21/2021,	
Data Validator:	Tina Donovan		**Validation Date:**	7/9/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWWW0045-052621	10562853001	748272	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	748272	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	748272	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	748272	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	748272	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	748272	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	748272	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	748272	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	748272	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	748272	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	748272	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	748272	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	748272	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	748272	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	748272	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	748272	IS3	SWWW0050-052821	SWWW0060
SWWW0061-052621	10562853017	748272	IS2	SWWW0050-052821	SWWW0061
SWWW0062-052621	10562853018	748272	IS1	SWWW0050-052821	SWWW0062
SWWW0063-052621	10562853019	748272	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	748272	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	749998	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	749998	IS1	SWWW0050-052821	SWWW0066
SWWW0067-052621	10562853023	749998	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	749998	IS3	SWWW0084-052821	SWWW0068

SWWW0069-052621	10562853025	749998	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	749998	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	749998	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	749998	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	749998	IS2	SWWW0084-052821	SWWW0073
SWWW0074-052621	10562853030	749998	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	749998	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	749998	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	749998	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	749998	IS1	SWWW0084-052821	SWWW0078
SWWW0079-052621	10562853035	749998	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	749998	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	749998	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	749998	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	749998	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	749998	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	748271	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	748271	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	748271	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	748271	IS1	SWWW0084-052821	SWWW0088
Total Metals					
SWWW0045-052621	10562853001	748275	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	748275	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	748275	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	748275	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	748275	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	748275	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	748275	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	748275	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	748275	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	750429	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	748275	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	748275	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	748275	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	750429	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	750429	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	748275	IS3	SWWW0050-052821	SWWW0060
SWWW0061-052621	10562853017	748275	IS2	SWWW0050-052821	SWWW0061
SWWW0062-052621	10562853018	748275	IS1	SWWW0050-052821	SWWW0062

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0063-052621	10562853019	748275	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	748275	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	748276	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	748276	IS1	SWWW0050-052821	SWWW0066
SWWW0067-052621	10562853023	748276	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	748276	IS3	SWWW0084-052821	SWWW0068
SWWW0069-052621	10562853025	748276	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	748276	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	748276	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	748276	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	748276	IS2	SWWW0084-052821	SWWW0073
SWWW0074-052621	10562853030	748276	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	748276	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	748276	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	748276	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	748276	IS1	SWWW0084-052821	SWWW0078
SWWW0079-052621	10562853035	748276	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	748276	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	748276	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	748276	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	748276	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	748276	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	749576	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	749576	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	749576	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	749576	IS1	SWWW0084-052821	SWWW0088

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	5/26/2021, 5/28/2021	6/14/2021-6/16/2021, 6/18/2021, 6/21/2021, 6/22/2021	No
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	5/26/2021, 5/28/2021	6/15/2021-6/18/2021, 6/21/2021, 6/22/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

*Total metals **QC batch 748275** ,MB 3991470 had an AlTR detection. All associated AlTR results were >10X the MB detection or < the MDL, so no data were qualified.*

*Total metals **QC batch 748276** , MB 3991475 had AlTR and PbTR detections both at levels <1.5X the MDL. Per TREC data validation guidelines, blank detections ≤1.5X the MDL are not further assessed.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Was MS result within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Total metals ***QC batch 750429*** *, MSD 4002324 MoTR recovery was >130%. The parent sample concentration was >4X the spike concentration, so recovery criteria were waived.*
Dissolved metals ***QC batch 748271*** *, MS 3991451 and MSD 3991452 CaDis and FeDis recoveries >130%. MS 3991453 FeDis, and ZnDis recoveries <70%. In all cases, the parent sample concentrations were >4X the spike concentrations, so no qualifiers were applied to CaDis, FeDis, or ZnDis results. MS 3991453 AlDis recovery <70% and parent sample concentration was <4X the spike concentration. However, the parent sample for this MS was not project associated preventing matrix similarity from being assessed thus, no AlDis results were qualified.*
Dissolved metals ***QC batch 748272*** *, MS 3991456 and MSD 3991457 CaDis recoveries >130%. MS 3991458 CaDis and MgDis recoveries >130%. In all cases, the parent sample concentrations were >4X the spike concentrations, so no CaDis or MgDis results were qualified based on MS 3991456, MSD 3991457 CaDis recoveries, or MS 3991458 CaDis and MgDis recoveries. MS 3991456 and MSD 3991457 MgDis recoveries were >130% and the parent sample concentration was <4X the spike concentration. Based on these MgDis recoveries MgDis results in SWWW0045-SWWW0049, SWWW0063, and SWWW0064 were qualified J+. These samples, which include the parent sample, were collected upstream of a point source discharge and water chemistry upstream of the discharge differs from water chemistry downstream of the discharge, so MgDis results in downstream samples were not qualified.*
Dissolved metals ***QC batch 749998*** *, MSD 4000070 CaDis recovery was <70%. MS 4000071 CaDis recovery >130%. In both cases the parent sample concentrations were >4X the spike concentrations thus, no associated CaDis results were qualified. MS 4000071 MgDis recovery <70% and the parent sample concentration was <4X the spike concentration. The parent sample for this MS was collected downstream of a point source discharge. MgDis results in samples SWWW0075 through SWWW0083, which were also collected downstream of the discharge, were qualified J-.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562853
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as CaCO3
Sample Date(s):	5/26/2021, 5/28/2021	**Analysis Date(s):**	6/9/2021, 6/17/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/9/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0045-052621	10562853001	747367	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	747653	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	747653	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	747653	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	747653	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	748076	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	747653	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	747653	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	747653	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	747653	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	747653	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	747653	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	747653	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	747653	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	747653	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	747653	IS3	SWWW0050-052821	SWWW0060
SWWW0061-052621	10562853017	747653	IS2	SWWW0050-052821	SWWW0061
SWWW0062-052621	10562853018	747653	IS1	SWWW0050-052821	SWWW0062
SWWW0063-052621	10562853019	747655	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	747657	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	747655	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	747655	IS1	SWWW0050-052821	SWWW0066
SWWW0067-052621	10562853023	747655	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	747655	IS3	SWWW0084-052821	SWWW0068
SWWW0069-052621	10562853025	747655	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	747655	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	747655	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	747655	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	747655	IS2	SWWW0084-052821	SWWW0073
SWWW0074-052621	10562853030	747655	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	747655	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	747655	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	747655	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	747655	IS1	SWWW0084-052821	SWWW0078

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

SWWW0079-052621	10562853035	747655	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	747655	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	747655	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	747655	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	747656	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	748076	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	747656	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	747656	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	747656	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	747656	IS1	SWWW0084-052821	SWWW0088

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	5/26/2021, 5/28/2021	6/9/2021, 6/17/2021	Yes

Describe corrective actions taken because of holding time problems.

***QC batch 748076**, samples SWWW0050 and SWWW0084,were analyzed beyond the method holding time. Both samples were FBs and had non-detect alkalinity results, thus were qualified UJ but not assigned a quality designation.*

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y___ N_X_
Was LCS/LCSD ≤ 20% RPD?	Y_X_ N___
Were any data flagged because of LCS problems?	Y_X_ N___

Describe corrective actions taken because of LCS problems.

***QC batch 747656**, LCS 3987987 and LCSD 3987988 had recoveries >110%. Associated alkalinity results in samples SWWW0083 and SWWW0085 through SWWW0088 were qualified J+. These samples were near the holding time limit, which explains why the analysis was not terminated and the samples reanalyzed.*

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Was MS result within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC batch 747367**, MS 3986489 and MSD 3986490 had recoveries <80%. The parent sample for this MS/MSD was not project associated, preventing matrix similarity from being assessed; therefore, no data were qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562853
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids (TDS) Total Suspended Solids (TSS)
Sample Date(s):	5/26/2021, 5/28/2021	**Analysis Date(s):**	6/2/2021-6/4/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/9/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWWW0045-052621	10562853001	745909	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	745909	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	745909	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	745909	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	745909	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	746693	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	745909	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	745909	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	745909	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	745909	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	745909	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	745909	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	745909	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	745909	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	745909	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	745909	IS3	SWWW0050-052821	SWWW0060
SWWW0061-052621	10562853017	745909	IS2	SWWW0050-052821	SWWW0061
SWWW0062-052621	10562853018	745909	IS1	SWWW0050-052821	SWWW0062
SWWW0063-052621	10562853019	745909	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	745909	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	745909	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	745911	IS1	SWWW0050-052821	SWWW0066
SWWW0067-052621	10562853023	745911	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	745911	IS3	SWWW0084-052821	SWWW0068

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0069-052621	10562853025	745911	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	745911	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	745911	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	745911	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	745911	IS2	SWWW0084-052821	SWWW0073
SWWW0074-052621	10562853030	745911	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	745911	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	745911	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	745911	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	745911	IS1	SWWW0084-052821	SWWW0078
SWWW0079-052621	10562853035	745911	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	745911	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	745911	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	745911	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	745911	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	746693	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	745911	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	745911	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	745913	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	745913	IS1	SWWW0084-052821	SWWW0088
Total Suspended Solids (TSS)					
SWWW0045-052621	10562853001	745910	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	745910	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	745910	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	745910	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	745910	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	746372	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	745910	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	745910	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	745910	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	745910	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	745910	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	745910	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	745910	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	745910	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	745910	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	745910	IS3	SWWW0050-052821	SWWW0060
SWWW0061-052621	10562853017	745910	IS2	SWWW0050-052821	SWWW0061

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0062-052621	10562853018	745910	IS1	SWWW0050-052821	SWWW0062
SWWW0063-052621	10562853019	745910	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	745910	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	745910	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	745912	IS1	SWWW0050-052821	SWWW0066
SWWW0067-052621	10562853023	745912	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	745912	IS3	SWWW0084-052821	SWWW0068
SWWW0069-052621	10562853025	745912	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	745912	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	745912	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	745912	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	745912	IS2	SWWW0084-052821	SWWW0073
SWWW0074-052621	10562853030	745912	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	745912	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	745912	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	745912	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	745912	IS1	SWWW0084-052821	SWWW0078
SWWW0079-052621	10562853035	745912	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	745912	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	745912	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	745912	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	745912	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	746372	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	745912	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	745912	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	745916	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	745916	IS1	SWWW0084-052821	SWWW0088

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	5/26/2021, 5/28/2021	6/2/2021, 6/4/2021	No
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/26/2021, 5/28/2021	6/2/2021, 6/3/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

*TDS **QC batch 745909**, MB 3978851 had a detection at the MDL. Blank detections ≤1.5X the MDL are not assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

*TSS **QC batch 745910**, laboratory duplicate 3978857, the RPD between the parent and duplicate sample was >10%. Both results were <5X the RL and the difference between the two results was < the RL thus, no data were qualifed.*

*TSS **QC batch 745916**, laboratory duplicate 3978881 had >10% RPD between the parent and duplicate sample. Both results were <5X the RL, but the difference between the two results was > the RL. However, the parent sample for this laboratory duplicate was not project associated, so sample collection and handling techniques, as well as the validity of the result, are unknown. Since sample intregrity cannot be assessed, no associated results were quailfied.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562853
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	5/26/2021, 5/28/2021	**Analysis Date(s):**	6/4/2021, 6/16/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/9/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0045-052621	10562853001	746644	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	746644	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	746644	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	746644	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	746644	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	746644	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	746644	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	746644	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	746644	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	746644	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	746644	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	749322	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	749322	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	749322	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	749322	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	749322	IS3	SWWW0050-052821	SWWW0060
SWWW0061-052621	10562853017	749322	IS2	SWWW0050-052821	SWWW0061
SWWW0062-052621	10562853018	749322	IS1	SWWW0050-052821	SWWW0062
SWWW0063-052621	10562853019	749322	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	749322	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	749322	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	749322	IS1	SWWW0050-052821	SWWW0066
SWWW0067-052621	10562853023	749322	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	749322	IS3	SWWW0084-052821	SWWW0068
SWWW0069-052621	10562853025	749322	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	749322	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	749322	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	749322	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	749322	IS2	SWWW0084-052821	SWWW0073
SWWW0074-052621	10562853030	749322	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	749322	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	749323	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	749323	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	749323	IS1	SWWW0084-052821	SWWW0078

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

SWWW0079-052621	10562853035	749323	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	749323	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	749323	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	749323	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	749323	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	749323	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	749323	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	749323	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	749323	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	749323	IS1	SWWW0084-052821	SWWW0088

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	5/26/2021, 5/28/2021	6/4/2021, 6/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC batch 746644 *MB 3982643,* ***QC batch 749322*** *MB 3996781,* ***QC batch 749323*** *MB 3996788 had detections <1.5X the MDL. These detections were not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC batch 746644 *MS 3982645 and MSD 3982646 had recoveries <80%. The parent sample used for this MS/MSD was not project associated preventing matrix similarity from being assessed thus, no qualifiers were applied based on these MS/MSD recoveries.*

QC batch 746644 *MSD 3982648 recovery was <80%. The parent sample for this MS, SWWW0045, was collected upstream of a point source discharge, as were SWWW0046 through SWWW0049. These samples are of a similar matrix, thus NO2+NO3 results in SWWW0045 through SWWW0049 were qualified J-.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562853
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	5/26/2021, 5/28/2021	**Analysis Date(s):**	6/14/2021, 6/15/2021
Data Validator:	Tina Donovan	**Validation Date:**	7/9/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0045-052621	10562853001	748928	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	748928	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	748928	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	748928	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	748928	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	748928	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	748928	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	748928	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	748928	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	748928	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	748928	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	748928	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	748928	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	748928	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	748928	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	748981	IS3	SWWW0050-052821	SWWW0060
SWWW0061-052621	10562853017	748981	IS2	SWWW0050-052821	SWWW0061
SWWW0062-052621	10562853018	748981	IS1	SWWW0050-052821	SWWW0062
SWWW0063-052621	10562853019	748981	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	748981	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	748981	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	748981	IS1	SWWW0050-052821	SWWW0066

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWWW0067-052621	10562853023	748981	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	748981	IS3	SWWW0084-052821	SWWW0068
SWWW0069-052621	10562853025	748981	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	748981	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	748981	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	748981	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	748981	IS2	SWWW0084-052821	SWWW0073
SWWW0074-052621	10562853030	748981	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	748981	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	748981	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	748981	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	748981	IS1	SWWW0084-052821	SWWW0078
SWWW0079-052621	10562853035	748981	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	748994	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	748994	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	748994	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	748994	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	748994	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	748994	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	748994	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	748994	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	748994	IS1	SWWW0084-052821	SWWW0088

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	5/26/2021, 5/28/2021	6/14/2021, 6/15/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC batch 748981 *MS 3995186 had >120% recovery and MSD 3995187 had <80% recovery. The parent sample concentration was >4X the spike concentration so no qualifiers were applied based on this MS/MSD. In the same QC batch, MS 3995188 and MSD 3995189 had >120% recoveries and the parent sample concentration was <4X the spike concentration. The parent sample, SWWW0065 was collected upstream of a point source discharge and is of a similar matrix to SWWW0063, SWWW0064, and SWWW0066 through SWWW0074 which were also collected upstream of the discharge thus, sulfate results SWWW0063 through SWWW0074 were qualified J+.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562853
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness, Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn, Alkalinity: Total as CaCO3, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Nitrate/Nitrate (NO2/NO3), Ammonia (NH3), Total Kjedahl Nitrogen (TKN), Dissolved Organic Carbon (DOC), Total Phosphorus (Phos), Sulfate (SO4)
Sample Date(s):	5/26/2021, 5/28/2021		
Data Validator:	Tina Donovan	**Validation Date:**	7/9/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0045-052621	10562853001	IS4	SWWW0050-052821	SWWW0045
SWWW0046-052621	10562853002	IS3	SWWW0050-052821	SWWW0046
SWWW0047-052621	10562853003	IS2	SWWW0050-052821	SWWW0047
SWWW0048-052621	10562853004	IS1-N	SWWW0050-052821	SWWW0048
SWWW0049-052621	10562853005	IS1-D	SWWW0050-052821	SWWW0049
SWWW0050-052821	10562853006	FB	SWWW0050-052821	SWWW0050
SWWW0051-052621	10562853007	IS4	SWWW0050-052821	SWWW0051
SWWW0052-052621	10562853008	IS3	SWWW0050-052821	SWWW0052
SWWW0053-052621	10562853009	IS2	SWWW0050-052821	SWWW0053
SWWW0054-052621	10562853010	IS1	SWWW0050-052821	SWWW0054
SWWW0055-052621	10562853011	IS4	SWWW0050-052821	SWWW0055
SWWW0056-052621	10562853012	IS3	SWWW0050-052821	SWWW0056
SWWW0057-052621	10562853013	IS2	SWWW0050-052821	SWWW0057
SWWW0058-052621	10562853014	IS1	SWWW0050-052821	SWWW0058
SWWW0059-052621	10562853015	IS4	SWWW0050-052821	SWWW0059
SWWW0060-052621	10562853016	IS3	SWWW0050-052821	SWWW0060
SWWW0061-052621	10562853017	IS2	SWWW0050-052821	SWWW0061
SWWW0062-052621	10562853018	IS1	SWWW0050-052821	SWWW0062
SWWW0063-052621	10562853019	IS4	SWWW0050-052821	SWWW0063
SWWW0064-052621	10562853020	IS3	SWWW0050-052821	SWWW0064
SWWW0065-052621	10562853021	IS2	SWWW0050-052821	SWWW0065
SWWW0066-052621	10562853022	IS1	SWWW0050-052821	SWWW0066
SWWW0067-052621	10562853023	IS4	SWWW0084-052821	SWWW0067
SWWW0068-052621	10562853024	IS3	SWWW0084-052821	SWWW0068
SWWW0069-052621	10562853025	IS2	SWWW0084-052821	SWWW0069
SWWW0070-052621	10562853026	IS1	SWWW0084-052821	SWWW0070
SWWW0071-052621	10562853027	IS4	SWWW0084-052821	SWWW0071
SWWW0072-052621	10562853028	IS3	SWWW0084-052821	SWWW0072
SWWW0073-052621	10562853029	IS2	SWWW0084-052821	SWWW0073

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWWW0074-052621	10562853030	IS1	SWWW0084-052821	SWWW0074
SWWW0075-052621	10562853031	IS4	SWWW0084-052821	SWWW0075
SWWW0076-052621	10562853032	IS3	SWWW0084-052821	SWWW0076
SWWW0077-052621	10562853033	IS2	SWWW0084-052821	SWWW0077
SWWW0078-052621	10562853034	IS1	SWWW0084-052821	SWWW0078
SWWW0079-052621	10562853035	IS4	SWWW0084-052821	SWWW0079
SWWW0080-052621	10562853036	IS3	SWWW0084-052821	SWWW0080
SWWW0081-052621	10562853037	IS2	SWWW0084-052821	SWWW0081
SWWW0082-052621	10562853038	IS1-N	SWWW0084-052821	SWWW0082
SWWW0083-052621	10562853039	IS1-D	SWWW0084-052821	SWWW0083
SWWW0084-052821	10562853040	FB	SWWW0084-052821	SWWW0084
SWWW0085-052621	10562853041	IS4	SWWW0084-052821	SWWW0085
SWWW0086-052621	10562853042	IS3	SWWW0084-052821	SWWW0086
SWWW0087-052621	10562853043	IS2	SWWW0084-052821	SWWW0087
SWWW0088-052621	10562853044	IS1	SWWW0084-052821	SWWW0088

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	5/26/2021, 5/28/2021	6/14/2021
Total Mercury	Aqueous	EPA 245.1	5/26/2021, 5/28/2021	6/14/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Hardness	Aqueous	EPA 200.8	5/26/2021, 5/28/2021	6/14/2021-6/16/2021, 6/18/2021, 6/21/2021, 6/22/2021
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	5/26/2021, 5/28/2021	6/15/2021-6/18/2021, 6/21/2021, 6/22/2021
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	5/26/2021, 5/28/2021	6/9/2021, 6/17/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	5/26/2021, 5/28/2021	6/2/2021, 6/4/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/26/2021, 5/28/2021	6/2/2021, 6/3/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	5/26/2021, 5/28/2021	6/4/2021, 6/16/2021
Sulfate (SO4)	Aqueous	ASTM D516	5/26/2021, 5/28/2021	6/14/2021, 6/15/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y___ N_X_

FB SWWW0084 had detections of CaDis, hardness, MoDis, MoTR, NO2+NO3, and PbTR. The CaDis, hardness, MoDis, and NO2+NO3 detections were <1.5X the MDL, thus were not further assessed per TREC data validation guidelines. All associated MoTR and PbTR results were >10x the FB detection thus, no data were qualified based on FB detections.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Field duplicate set SWWW0048/SWWW0049 had >20% RPD between the original and duplicate sample TSS results and both results were >5X the RL. Since TSS analysis is determined by filtration, the sample matrix is not considered. Thus TSS results in samples SWWW0045-SWWW0049 and SWW0051-SWWW0066 were qualified J. Field blanks (SWWW0050) are not assessed for field precision since DI water is so different than natural samples.

Field duplicate set SWWW0082/SWWW0083 had >20% RPD for FeDis results. Both results were <5X the RL and the absolute difference between the results was < the RL thus, no associated data were qualified.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

DATA VALIDATION SUMMARY FOR SDG 10565256

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury; Total Mercury; Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn; Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4)
Sample Date(s):	6/10/2021,6/14/21		
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	6/10/2021,6/14/21	6/22/2021, 6/24/2021
Total Mercury	Aqueous	EPA 245.1	6/10/2021,6/14/21	6/24/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	6/10/2021,6/14/21	6/28/21, 6/30/21, 7/1/2021, 7/2/21, 7/21/21, 7/22/2021
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	6/10/2021,6/14/21	6/28/21, 7/2/2021, 7/13/2021, 7/21/2021,
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	6/10/2021,6/14/21	6/24/2021, 6/25/2021, 6/30/2021, 7/1/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	6/10/2021,6/14/21	6/17/2021, 6/18/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	6/10/2021,6/14/21	6/17/2021, 6/21/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	6/10/2021,6/14/21	6/16/2021
Ammonia (NH3)	Aqueous	EPA 350.1	6/10/2021,6/14/21	6/23/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	6/10/2021,6/14/21	6/25/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	6/10/2021,6/14/21	6/21/2021

DATA VALIDATION SUMMARY FOR SDG 10565256

Total Phosphorus (Phos)	Aqueous	SM4500P-F	6/10/2021,6/14/21	6/28/2021, 6/29/2021
Sulfate (SO4)	Aqueous	ASTM D516	6/10/2021,6/14/21	6/24/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	1344	1216	1038	178	0
Percentage	100%	90%	85%	15%	0%

Analyses of this sample set resulted with 1216 natural sample data points. Of these, 1038 (85%) had no quality control deficiencies and are defined as enforcement quality while, 178 (15%) had quality control deficiencies and are defined as screening quality. Of the 178 qualified data points; 15 were coded "MS" due to poor laboratory accuracy and 9 were coded "MS" for MS frequency criteria not being met. 19 were coded "RPD" due to laboratory precision criteria not being met, 19 were coded "FB" due to field accuracy criteria not being met, and 116 were coded "FD" due to field precision criteria not being met. All anticipated data was collected thus, completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10565256	
Matrix:	Aqueous		**Analysis:**	Total and Dissolved Mercury	
Sample Date(s):	6/10/2021,6/14/21		**Analysis Date(s):**	6/22/2021, 6/24/2021	
Data Validator:	Michele Bay		**Validation Date:**	8/16/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWWW0089-061021	10565256001	750485	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	750485	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	750485	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	750485	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	750485	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	750485	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	750485	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	750485	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	750485	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	750485	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	750485	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	750485	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	750485	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	750485	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	750485	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	750485	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	750485	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	750485	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	750485	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	750485	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	750527	IS2	SWWW0102-061421	SWWW0109
SWWW0110-061021	10565256022	750527	IS1	SWWW0102-061421	SWWW0110

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0111-061021	10565256025	750527	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	750527	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	750527	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	750527	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	750527	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	750527	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	750527	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	750527	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	750527	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	750527	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	750527	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	750527	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	750527	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	750527	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	750527	IS2	SWWW0132-061421	SWWW0125
SWWW0126-061021	10565256040	750527	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	750527	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	750527	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	750529	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	750529	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	750529	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	750529	FB	SWWW0132-061421	SWWW0132
Total Mercury					
SWWW0089-061021	10565256001	750519	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	750519	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	750519	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	750519	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	750519	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	750519	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	750519	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	750519	IS1	SWWW0102-061421	SWWW0096

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0097-061021	10565256009	750519	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	750519	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	750519	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	750519	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	750519	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	750519	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	750519	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	750519	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	750519	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	750519	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	750519	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	750519	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	750523	IS2	SWWW0102-061421	SWWW0109
SWWW0110-061021	10565256022	750523	IS1	SWWW0102-061421	SWWW0110
SWWW0111-061021	10565256025	750523	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	750523	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	750523	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	750523	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	750523	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	750523	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	750523	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	750523	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	750523	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	750523	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	750523	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	750523	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	750523	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	750523	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	750523	IS2	SWWW0132-061421	SWWW0125
SWWW0126-061021	10565256040	750523	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	750523	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	750523	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	750526	IS2	SWWW0132-061421	SWWW0129

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0130-061021	10565256044	750526	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	750526	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	750526	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	6/10/2021,6/14/21	6/22/2021, 6/24/2021	No
Total Mercury	Aqueous	EPA 245.1	6/10/2021,6/14/21	6/24/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Was MS/MSD within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn
Sample Date(s):	6/10/2021,6/14/21	**Analysis Date(s):**	6/24/2021-6/26/2021, 6/28/21, 6/30/2021, 7/1/2021, 7/2/2021, 7/13/2021, 7/21/2021, 7/22/2021
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWWW0089-061021	10565256001	751103	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	751103	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	751103	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	751103	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	751103	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	751103	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	751103	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	751103	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	751103	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	751103	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	751103	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	751103	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	751103	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	751103	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	751103	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	751103	IS3	SWWW0102-061421	SWWW0104

SWWW0105-061021	10565256017	751103	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	751103	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	751103	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	751103	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	751104	IS2	SWWW0102-061421	SWWW0109
SWWW0110-061021	10565256022	751104	IS1	SWWW0102-061421	SWWW0110
SWWW0111-061021	10565256025	751104	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	751104	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	751104	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	751104	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	751104	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	751104	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	751104	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	751104	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	751104	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	751104	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	757551	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	751104	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	751104	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	751104	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	751104	IS2	SWWW0132-061421	SWWW0125
SWWW0126-061021	10565256040	751104	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	750605	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	750605	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	750605	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	750605	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	750605	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	750605	FB	SWWW0132-061421	SWWW0132
Total Metals					
SWWW0089-061021	10565256001	751106	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	751106	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	751106	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	751106	IS1	SWWW0102-061421	SWWW0092

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0093-061021	10565256005	751106	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	751106	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	751106	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	751106	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	751106	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	751106	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	751106	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	751106	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	751106	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	751106	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	751106	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	751106	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	751106	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	751106	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	751106	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	751106	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	752887	IS2	SWWW0102-061421	SWWW0109
SWWW0110-061021	10565256022	752887	IS1	SWWW0102-061421	SWWW0110
SWWW0111-061021	10565256025	752887	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	752887	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	752887	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	752887	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	752887	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	752887	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	752887	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	752887	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	752887	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	752887	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	757553	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	752887	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	752887	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	752887	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	752887	IS2	SWWW0132-061421	SWWW0125

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0126-061021	10565256040	752887	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	750657	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	750657	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	750657	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	750657	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	750657	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	750657	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	6/10/2021,6/14/21	6/25/2021, 6/26/2021, 6/28/21, 6/30/21, 7/1/2021, 7/2/21, 7/21/21, 7/22/2021	No
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	6/10/2021,6/14/21	6/24/2021, 6/25/2021, 6/28/21, 7/2/2021, 7/13/2021, 7/21/2021, 7/22/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 752887*, PbTR was detected in MB 4014645 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

QC Batch 751103*, MgDis was detected in MB 4005777 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y___ N_X_
Was MS result within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y___ N_X_
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 750605, *MS 4003692 MSD 4003693 CaDis recoveries <70%, but the parent sample concentration was >4X the spike concentration, so recovery criteria were waived.*

QC Batch 751103, *MS 4005779/MSD 4005780 and MS 4005781/MSD 4005782 CaDis recoveries >130%. In both cases, the parent sample concentrations were >4X the spike concentrations so recovery criteria were waived.*

QC Batch 751104, *MS 4005786 CaDis recovery >130%, MSD 4005787 CaDis recovery <70%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentration. MS 4005788 CaDis and MgDis recoveries >130%. No associated CaDis sample results were qualified because the parent sample Ca concentration was >4X the spike concentration. For MgDis, the parent sample (SWWW0119) used for MS/MSD was <4X the spike concentration. The parent sample for this MS/MSD was collected downstream of a point source discharge, as were samples SWWW0120, and SWWW0122 through SWWW0126. As evidenced by CaDis, MoDis, hardness, and TDS concentrations, water chemisty downstream of the discharge differs from water chemistry upstream of the discharge. Thus, only samples SWWW0119, SWWW0120, and SWWW0122 through SWWW0126 are considered to be of a similar matrix. MgDis results for these samples were > the MDL and qualified J+.*

QC Batch 757551, *MS 4039929 CaDis recovery <70%, MSD 4039930 CaDis and MoDis recoveries >130%. No associated CaDis or MoDis results were qualified because the parent sample concentrations were >4X the spike concentration. MSD 4039930 MgDis recoveries >130%. Associated MgDis sample result SWWW0121 was ≥MDL and qualified J+.*

QC Batch 757553, *MS/MSD was not performed due to insufficient sample volume. An LCSD was analyzed to satisfy the laboratory duplicate requirement; and RPDs of the LCS/LCSD results were all <20%. Since an MS was not analyzed, MS frequency was not met. Associated AlTR, AsTR, CdTR, CuTR, FeTR, MoTR, PbTR, and ZnTR in sample SWWW0121 were ≥MDL and qualified J and AgTR was non-detect and qualified UJ.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as CaCO3
Sample Date(s):	6/10/2021,6/14/21	**Analysis Date(s):**	6/24/2021, 6/25/2021, 6/30/2021, 7/1/2021
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0089-061021	10565256001	751638	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	751638	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	751638	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	751638	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	751638	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	751638	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	751940	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	751940	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	751940	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	751940	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	751943	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	751943	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	751943	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	751943	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	751943	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	751943	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	751943	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	751943	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	751943	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	751943	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	751943	IS2	SWWW0102-061421	SWWW0109

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

SWWW0110-061021	10565256022	751943	IS1	SWWW0102-061421	SWWW0110
SWWW0111-061021	10565256025	751943	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	751943	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	751943	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	751943	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	751943	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	751943	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	751943	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	751943	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	751962	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	751962	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	751962	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	751962	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	751962	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	751962	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	751962	IS2	SWWW0132-061421	SWWW0125
SWWW0126-061021	10565256040	751962	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	751962	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	751962	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	751962	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	751962	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	751962	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	752156	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	6/10/2021,6/14/21	6/24/2021, 6/25/2021, 6/30/2021, 7/1/2021	No

Describe corrective actions taken because of holding time problems.

***QC Batch 751940**, samples SWWW0095 - SWWW0098 and **QC Batch 751962**, samples SWWW0119 - SWWW0131 were analyzed six days past the method specific hold time. However, these were re-analyses and the re-analysis results confirmed the original analysis results. Therefore, qualifiers were not applied for the holding time exceedance.*

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS/LCSD within control window of 90-110% recovery?	Y_X_ N___
Was LCS/LCSD ≤ 20% RPD?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Was MS result within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was MSD sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC Batch 751638**, MSD 4008391 recovery >120%, but the parent sample concentration was >4X the spike concentration thus, no associated data were qualified.*

***QC Batch 751962**, MS 4010334 MSD 4010335 recoveries >120%. No associated sample results were qualified because the parent sample concentration was >4X the spike concentration.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids (TDS) Total Suspended Solids (TSS)
Sample Date(s):	6/10/2021,6/14/21	**Analysis Date(s):**	6/17/2021, 6/18/2021, 6/21/2021
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWWW0089-061021	10565256001	749936	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	749936	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	749936	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	749936	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	749936	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	749936	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	749936	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	749936	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	749936	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	749936	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	749936	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	749936	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	749936	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	750247	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	749936	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	749936	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	749936	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	749936	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	749936	IS4	SWWW0102-061421	SWWW0107

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0108-061021	10565256020	749936	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	749936	IS2	SWWW0102-061421	SWWW0109
SWWW0110-061021	10565256022	749938	IS1	SWWW0102-061421	SWWW0110
SWWW0111-061021	10565256025	749938	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	749938	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	749938	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	749938	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	749938	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	749938	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	749938	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	749938	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	749938	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	749938	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	749938	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	749938	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	749938	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	749938	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	749938	IS2	SWWW0132-061421	SWWW0125
SWWW0126-061021	10565256040	749938	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	749938	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	749938	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	749938	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	749941	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	749941	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	750247	FB	SWWW0132-061421	SWWW0132
Total Suspended Solids (TSS)					
SWWW0089-061021	10565256001	749937	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	749937	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	749937	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	749937	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	749937	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	749937	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	749937	IS2	SWWW0102-061421	SWWW0095

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0096-061021	10565256008	749937	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	749937	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	749937	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	749937	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	749937	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	749937	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	750882	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	749937	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	749937	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	749937	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	749937	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	749937	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	749937	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	749937	IS2	SWWW0102-061421	SWWW0109
SWWW0110-061021	10565256022	749939	IS1	SWWW0102-061421	SWWW0110
SWWW0111-061021	10565256025	749939	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	749939	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	749939	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	749939	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	749939	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	749939	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	749939	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	749939	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	749939	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	749939	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	749939	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	749939	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	749939	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	749939	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	749939	IS2	SWWW0132-061421	SWWW0125
SWWW0126-061021	10565256040	749939	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	749939	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	749939	IS3	SWWW0132-061421	SWWW0128

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0129-061021	10565256043	749939	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	749948	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	749948	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	750882	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	6/10/2021,6/14/21	6/17/2021, 6/18/2021	No
Total Suspended Solids (TSS)	Aqueous	SM2540D	6/10/2021,6/14/21	6/17/2021, 6/21/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y_X_ N___

Describe corrective actions taken because of LDS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

***QC Batch 749936** , for TDS, LDS 3999800 RPD>10% and both the primary and duplicate results were >5X the RL. Associated TDS sample results SWWW0089 - SWWW0101 and SWWW0103 - SWWW0109 were ≥MDL and qualified J. Matrix similarity is not considered when assessing TDS and TSS results since gravimetric analyses are not prone to chemical interferences.*

***QC Batch 749939** , for TSS, LDS 3999813 RPD>10%. Both primary and duplicate sample results were <5X the RL and the absolute difference between primary and duplicate sample results was <RL. Therefore, no TSS results were qualified.*

***QC Batch 749948** , for TSS, LDS 3999847 RPD>10%. The parent sample was not project associated so nothing is known of sample collection and handling, nor of the reliability of the result. Therefore no data were qualified based on precision for this laboratory duplicate.*

***QC Batch 750882** , for TSS, LDS 4004699 RPD>10%. The parent sample was not project associated so nothing is known of sample collection and handling, nor of the reliability of the result. Therefore no data were qualified based on precision for this laboratory duplicate.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	6/10/2021,6/14/21	**Analysis Date(s):**	6/23/2021
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0089-061021	10565256001	751456	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	751456	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	751456	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	751456	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	751456	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	751456	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	751456	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	751456	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	751456	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	751456	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	751457	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	751457	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	751457	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	751457	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	751457	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	751457	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	751457	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	751457	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	751457	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	751457	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	751457	IS2	SWWW0102-061421	SWWW0109

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

SWWW0110-061021	10565256022	751457	IS1	SWWW0102-061421	SWWW0110
SWWW0127-061021	10565256041	751457	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	751457	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	751457	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	751457	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	751457	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	751457	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	6/10/2021,6/14/21	6/23/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Total Kjedahl Nitrogen (TKN)
Sample Date(s):	6/10/2021,6/14/21	**Analysis Date(s):**	6/25/2021
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0089-061021	10565256001	728391	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	728389	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	728389	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	728389	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	728391	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	728389	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	728389	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	728389	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	728391	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	728391	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	728389	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	728389	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	728389	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	728391	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	728391	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	728389	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	728389	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	728389	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	728389	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	728389	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	728389	IS2	SWWW0102-061421	SWWW0109

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

SWWW0110-061021	10565256022	728389	IS1	SWWW0102-061421	SWWW0110
SWWW0127-061021	10565256041	728391	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	728389	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	728389	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	728389	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	728389	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	728391	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	6/10/2021,6/14/21	6/25/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS. Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples?	Y_X_ N___
Was the MS (and MSD if analyzed) within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
If an MSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS (or MSD if analyzed) recovery problems?	Y_X_ N___
If an MSD was analyzed were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 728389** , MSD 2925691 recovery <90%. The parent sample (SWWW0107) was collected upstream of a point source discharge and water chemistry upstream of the discharge differs from water quality downstream of the discharge. Samples SWWW0090-SWWW0092 and SWWW0108-SWWW0110 were also collected upstream of the discharge and are considered of a similar matrix to the parent sample. TKN results in WWW0090 - SWWW0092, SWWW0107, SWWW0109, and SWWW0110 were ≥MDL and qualified J-. The TKN result in SWWW 0108 was non-detect and qualified UJ.*

***QC Batch 728391** , MS 2925703 MSD 2925790 recoveries >110%. The parent sample (SWWW0089) was collected upstream of a point source discharge and water chemistry upstream of the discharge differs from water quality downstream of the discharge. The SWWW0089 TKN result was non-detect, thus was not qualified for the high MS recovery. All other samples in this QC batch were collected downstream of the discharge or were a field blank and are considered dissimilar to the parent sample. Thus, no TKN results were qualified based on this MS recovery.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	6/10/2021,6/14/21	**Analysis Date(s):**	6/16/2021
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0089-061021	10565256001	749645	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	749645	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	749645	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	749645	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	749645	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	749645	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	749645	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	749645	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	749645	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	749645	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	749646	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	749646	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	749646	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	749646	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	749646	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	749646	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	749646	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	749646	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	749646	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	749646	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	749646	IS2	SWWW0102-061421	SWWW0109

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

SWWW0110-061021	10565256022	749646	IS1	SWWW0102-061421	SWWW0110
SWWW0111-061021	10565256025	749646	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	749646	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	749646	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	749646	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	749646	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	749646	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	749646	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	749646	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	749647	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	749647	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	749647	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	749647	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	749647	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	749647	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	749647	IS2	SWWW0132-061421	SWWW0125
SWWW0126-061021	10565256040	749647	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	749647	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	749647	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	749647	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	749647	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	749647	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	749647	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	6/10/2021,6/14/21	6/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

Describe corrective actions taken because of blank problems.

QC Batch 749646, *NO2+NO3 was detected in MB 3998444 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

QC Batch 749647, *NO2+NO3 was detected in MB 3998451 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 90-110% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	6/10/2021,6/14/21	**Analysis Date(s):**	6/21/2021
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0089-061021	10565256001	727576	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	727575	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	727575	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	727575	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	727576	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	727576	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	727575	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	727575	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	727576	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	727576	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	727575	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	727575	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	727575	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	727576	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	727576	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	727576	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	727575	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	727575	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	727576	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	727575	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	727575	IS2	SWWW0102-061421	SWWW0109

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

SWWW0110-061021	10565256022	727575	IS1	SWWW0102-061421	SWWW0110
SWWW0127-061021	10565256041	727576	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	727576	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	727575	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	727575	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	727575	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	727576	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	6/10/2021,6/14/21	6/21/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

4. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 25% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

4. Matrix Spike (MS)	
Was the MS analyzed at the frequency of 1/20 samples ?	Y_X_ N___
Was the MS within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were any data flagged because of MS recovery problems?	Y___ N_X_
Describe corrective actions taken because of MS recovery problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	6/10/2021,6/14/21	**Analysis Date(s):**	6/24/2021
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0089-061021	10565256001	751764	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	751764	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	751764	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	751764	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	751764	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	751764	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	751764	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	751764	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	751764	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	751764	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	751764	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	751764	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	751764	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	751764	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	751764	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	751764	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	751764	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	751764	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	751851	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	751851	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	751851	IS2	SWWW0102-061421	SWWW0109

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWWW0110-061021	10565256022	751851	IS1	SWWW0102-061421	SWWW0110
SWWW0111-061021	10565256025	751851	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	751851	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	751851	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	751851	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	751851	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	751851	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	751851	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	751851	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	751851	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	751851	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	751851	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	751851	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	751851	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	751851	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	751851	IS2	SWWW0132-061421	SWWW0125
SWWW0126-061021	10565256040	751851	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	751852	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	751852	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	751852	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	751852	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	751852	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	751852	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	6/10/2021,6/14/21	6/24/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 751852** , MS 4009517 MSD 4009518 recoveries >120%. MS 4009519 recovery > 120% and MSD 4009520 recovery <80%. In both cases, the parent sample concentrations were >4X the spike concentrations; thus, no data were qualified .*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHORUS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Total Phosphorus (Phos)
Sample Date(s):	6/10/2021,6/14/21	**Analysis Date(s):**	6/28/2021, 6/29/2021
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0089-061021	10565256001	752241	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	752241	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	752241	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	752242	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	752242	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	752242	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	752242	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	752242	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	752242	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	752242	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	752242	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	752242	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	752242	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	752242	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	752242	IS4	SWWW0102-061421	SWWW0103
SWWW0104-061021	10565256016	752242	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	752242	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	752242	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	752242	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	752242	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	752242	IS2	SWWW0102-061421	SWWW0109

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHORUS

SWWW0110-061021	10565256022	752242	IS1	SWWW0102-061421	SWWW0110
SWWW0127-061021	10565256041	752242	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	752243	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	752243	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	752243	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	752243	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	752243	FB	SWWW0132-061421	SWWW0132

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	6/10/2021,6/14/21	6/28/2021, 6/29/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/20 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHORUS

Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems. ***QC Batch 752243** , MS 4012075 MSD 4012076 recoveries >120%, but the parent sample was not project associated so matrix similarity could not be determined thus, no associated phosphorus results were qualified.*	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565256
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn, Alkalinity: Total as CaCO3, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Nitrate/Nitrate (NO2/NO3), Ammonia (NH3), Total Kjedahl Nitrogen (TKN), Dissolved Organic Carbon (DOC), Total Phosphorus (Phos), Sulfate (SO4)
Sample Date(s):	6/10/2021,6/14/21		
Data Validator:	Michele Bay	**Validation Date:**	8/16/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0089-061021	10565256001	IS4	SWWW0102-061421	SWWW0089
SWWW0090-061021	10565256002	IS3	SWWW0102-061421	SWWW0090
SWWW0091-061021	10565256003	IS2	SWWW0102-061421	SWWW0091
SWWW0092-061021	10565256004	IS1	SWWW0102-061421	SWWW0092
SWWW0093-061021	10565256005	IS4	SWWW0102-061421	SWWW0093
SWWW0094-061021	10565256006	IS3	SWWW0102-061421	SWWW0094
SWWW0095-061021	10565256007	IS2	SWWW0102-061421	SWWW0095
SWWW0096-061021	10565256008	IS1	SWWW0102-061421	SWWW0096
SWWW0097-061021	10565256009	IS4	SWWW0102-061421	SWWW0097
SWWW0098-061021	10565256010	IS3	SWWW0102-061421	SWWW0098
SWWW0099-061021	10565256011	IS2	SWWW0102-061421	SWWW0099
SWWW0100-061021	10565256012	IS1-N	SWWW0102-061421	SWWW0100
SWWW0101-061021	10565256013	IS1-D	SWWW0102-061421	SWWW0101
SWWW0102-061421	10565256014	FB	SWWW0102-061421	SWWW0102
SWWW0103-061021	10565256015	IS4	SWWW0102-061421	SWWW0103

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWWW0104-061021	10565256016	IS3	SWWW0102-061421	SWWW0104
SWWW0105-061021	10565256017	IS2	SWWW0102-061421	SWWW0105
SWWW0106-061021	10565256018	IS1	SWWW0102-061421	SWWW0106
SWWW0107-061021	10565256019	IS4	SWWW0102-061421	SWWW0107
SWWW0108-061021	10565256020	IS3	SWWW0102-061421	SWWW0108
SWWW0109-061021	10565256021	IS2	SWWW0102-061421	SWWW0109
SWWW0110-061021	10565256022	IS1	SWWW0102-061421	SWWW0110
SWWW0111-061021	10565256025	IS4	SWWW0132-061421	SWWW0111
SWWW0112-061021	10565256026	IS3	SWWW0132-061421	SWWW0112
SWWW0113-061021	10565256027	IS2	SWWW0132-061421	SWWW0113
SWWW0114-061021	10565256028	IS1	SWWW0132-061421	SWWW0114
SWWW0115-061021	10565256029	IS4	SWWW0132-061421	SWWW0115
SWWW0116-061021	10565256030	IS3	SWWW0132-061421	SWWW0116
SWWW0117-061021	10565256031	IS2	SWWW0132-061421	SWWW0117
SWWW0118-061021	10565256032	IS1	SWWW0132-061421	SWWW0118
SWWW0119-061021	10565256033	IS4	SWWW0132-061421	SWWW0119
SWWW0120-061021	10565256034	IS3	SWWW0132-061421	SWWW0120
SWWW0121-061021	10565256035	IS2	SWWW0132-061421	SWWW0121
SWWW0122-061021	10565256036	IS1	SWWW0132-061421	SWWW0122
SWWW0123-061021	10565256037	IS4	SWWW0132-061421	SWWW0123
SWWW0124-061021	10565256038	IS3	SWWW0132-061421	SWWW0124
SWWW0125-061021	10565256039	IS2	SWWW0132-061421	SWWW0125
SWWW0126-061021	10565256040	IS1	SWWW0132-061421	SWWW0126
SWWW0127-061021	10565256041	IS4	SWWW0132-061421	SWWW0127
SWWW0128-061021	10565256042	IS3	SWWW0132-061421	SWWW0128
SWWW0129-061021	10565256043	IS2	SWWW0132-061421	SWWW0129
SWWW0130-061021	10565256044	IS1-N	SWWW0132-061421	SWWW0130
SWWW0131-061021	10565256045	IS1-D	SWWW0132-061421	SWWW0131
SWWW0132-061421	10565256046	FB	SWWW0132-061421	SWWW0132

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	6/10/2021,6/14/21	6/22/2021, 6/24/2021
Total Mercury	Aqueous	EPA 245.1	6/10/2021,6/14/21	6/24/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	6/10/2021,6/14/21	6/25/2021, 6/26/2021, 6/28/21, 6/30/21, 7/1/2021, 7/2/21, 7/21/21, 7/22/2021

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	6/10/2021,6/14/21	6/24/2021, 6/25/2021, 6/28/21, 7/2/2021, 7/13/2021, 7/21/2021, 7/22/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	6/10/2021,6/14/21	6/24/2021, 6/25/2021, 6/30/2021, 7/1/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	6/10/2021,6/14/21	6/17/2021, 6/18/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	6/10/2021,6/14/21	6/17/2021, 6/21/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	6/10/2021,6/14/21	6/16/2021
Ammonia (NH3)	Aqueous	EPA 350.1	6/10/2021,6/14/21	6/23/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	6/10/2021,6/14/21	6/25/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	6/10/2021,6/14/21	6/21/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	6/10/2021,6/14/21	6/28/2021, 6/29/2021
Sulfate (SO4)	Aqueous	ASTM D516	6/10/2021,6/14/21	6/24/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

CaDis, FeTR, hardness, MgDis, and PbTR were detected in FB SWWW0102 at concentrations <1.5X the MDL thus, were not further assessed per TREC data validation guidelines.

DOC and SO4 were detected in FB SWWW0102 at concentrations >1.5X the MDL. Associated DOC sample results SWWW0089, SWWW0093-SWWW0095, SWWW0097-SWWW0101, SWWW0103-SWWW0106, and SWWW0108 were >RL, but ≤10X the FB value and were qualified J+. DOC results in SWWW0090-SWWW092, SWWW096, SWWW0107, SWWW0109, and SWWW110 were ≥10X the FB value and were not qualified. Associated SO4 sample results SWWW0090-SWWW0092 and SWWW0108-SWWW0110 were >RL, but ≤10X the FB value and were qualified J+. SO4 sample results SWWW0089, SWWW0093-SWWW0101, and SWWW0103-SWWW0107 were ≥10X the FB value and were not qualified.

CaDis, CuDis, hardness, MgDis, and NO2+NO3 were detected in FB SWWW0132 at concentrations <1.5X the MDL thus, were not further assessed per TREC data validation guidelines.

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

For duplicate set SWWW0100/SWWW0101 RPDs>20% for AlTR, CdDis, CdTR, CuTR, FeTR, total P, PbTR, TSS, and ZnTR. Both primary and duplicate sample results for CdDis, CdTR, and TSS were <5X RL and the absolute difference between primary and duplicate results were <RL thus, no associated CdDis, CdTR, or TSS sample results were qualified. The primary and duplicate sample results for AlTR, CuTR, FeTR, PbTR, and ZnTR were ≥5X RL and RPD>20%. The primary and duplicate sample results for total P were <5X RL and the absolute difference between primary and duplicate results was >RL. Associated AlTR, CuTR, FeTR, PbTR, total P, and ZnTR sample results SWWW0093-SWWW0101 and SWWW0103-SWWW0106 were ≥MDL and qualified J. The duplicate set was collected downstream of a point source discharge and water chemistry downstream differs from water chemistry upstream of the discharge. Associated AlTR, CuTR, FeTR, PbTR, ZnTR and total P results in SWWW0089-SWWW0092 and SWWW0107-SWWW0110 were not qualified because these samples were collected upstream of the discharge and are of a different matrix.

For duplicate set SWWW0130/SWWW0131 RPDs>20% for AlTR, AsTR, CdDis, CuTR, FeTR, total P, PbTR, TSS, and ZnTR. Both primary and duplicate results for CdDis and total P were <5X RL and the absolute difference between primary and duplicate results were <RL thus, no associated CdDis or total P results were qualified. The primary and duplicate sample results for AlTR, AsTR, CuTR, FeTR, PbTR, and ZnTR were ≥5X RL and RPD >20%. Primary result for TSS was <5X RL and duplicate result was >5X the RL; and, the absolute difference between primary and duplicate results was >RL. Associated AlTR, AsTR, CuTR, FeTR, PbTR, and ZnTR results in SWWW0127-SWWW0131 were ≥MDL and qualified J. The duplicate set was collected at a location below three point source discharges. Samples SWWW0089-SWWW0118 (samples SWWW0111-SWWW0118 associated with this FD) were collected above all discharges, samples SWWW0119-SWWW0126 were collected below the first discharge, but above the remaining two discharges. Samples SWWW0093-SWWW0101 were collected below the 2nd discharge. Samples SWWW0103-SWWW0106 and SWWW0127-SWWW0131 (samples SWWW0127-SWWW0131 associated with this FD) were collected below the third discharge. As evidenced by sulfate results for all samples, water chemistry below the second discharge differs from water chemistry above the second discharge. Thus AlTR, AsTR, CuTR, FeTR, PbTR, and ZnTR results in SWWW0111-SWWW0126 were not qualified because these samples were judged to be of a differing matrix than the field duplicae set. Since TSS concentration is determined by filtration, the chemical make-up of the sample should not influence the result. Thus, TSS results in all associated samples were qualified for field precision. TSS results in SWWW0111-SWWW0118 and SWWW0121-SWWW0131 were > the MDL and qualified J. TSS results in SWWW0119 and SWWW0120 were < the MDL and qualified UJ.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

DATA VALIDATION SUMMARY FOR SDG 10572927

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10572927
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury; Total Mercury; Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn; Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn; Alkalinity: Total as CaCO3; Total Dissolved Solids (TDS); Total Suspended Solids (TSS); Nitrate/Nitrate (NO2/NO3); Ammonia (NH3); Total Kjedahl Nitrogen (TKN); Dissolved Organic Carbon (DOC); Total Phosphorus (Phos); Sulfate (SO4)
Sample Date(s):	8/1/2021-8/3/2021		
Data Validator:	Michele Bay	**Validation Date:**	9/30/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/1/2021-8/3/2021	8/9/2021
Total Mercury	Aqueous	EPA 245.1	8/1/2021-8/3/2021	8/9/2021, 8/18/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	8/1/2021-8/3/2021	8/13/2021, 8/16/21 - 8/18/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/1/2021-8/3/2021	8/9/2021, 8/10/2021,
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/1/2021-8/3/2021	8/11/2021-8/13/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/1/2021-8/3/2021	8/6/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/1/2021-8/3/2021	8/6/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/1/2021-8/3/2021	8/6/2021
Ammonia (NH3)	Aqueous	EPA 350.1	8/1/2021-8/3/2021	8/9/2021, 8/15/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	8/1/2021-8/3/2021	8/16/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	8/1/2021-8/3/2021	8/11/2021, 8/12/2021, 8/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	8/1/2021-8/3/2021	8/11/2021, 8/18/2021

DATA VALIDATION SUMMARY FOR SDG 10572927

Sulfate (SO4)	Aqueous	ASTM D516	8/1/2021-8/3/2021	8/12/2021, 8/16/2021
Were Level A field documentation and QA/QC practices met for this data set?				Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?				Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	1344	1216	1106	110	
Percentage	100%	90%	91%	9%	0%

Analyses of this sample set resulted with 1216 natural data points. Of these, 1106 (91%) had no quality control deficiencies and are defined as enforcement quality while, 110 (9%) had quality control deficiencies and are defined as screening quality. Of the 110 qualified data points; 38 were coded "MS" due to laboratory accuracy criteria not being met, 19 were coded "RPD" due to laboratory precision criteria not being met, 32 were coded "FB" due to field accuracy criteria not being met, and 21 were coded "FD,RPD" due to both field precision and laboratory precision criteria not being met. All anticipated data was collected thus, completeness for this data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10572927
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	8/1/2021-8/3/2021	**Analysis Date(s):**	8/9/2021, 8/18/2021
Data Validator:	Michele Bay	**Validation Date:**	9/30/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWWW0177-080121	10572927001	761414	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	761414	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	761414	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	761414	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	761414	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	761414	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	761414	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	761414	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	761414	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	761414	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	761414	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	761414	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	761414	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	761414	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	761414	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	761414	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	761414	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	761414	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	761414	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	761414	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	761415	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	761415	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	761415	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	761415	FB	SWWW0200-080321	SWWW0200

SWWW0201-080221	10572927025	761415	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	761415	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	761415	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	761415	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	761415	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	761415	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	761415	IS2	SWWW0200-080321	SWWW0207
SWWW0208-080121	10572927032	761415	IS1	SWWW0200-080321	SWWW0208
SWWW0209-080121	10572927033	761415	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	761415	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	761415	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	761415	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	761415	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	761415	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	761415	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	761415	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	761417	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	761417	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	761417	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	761417	IS1	SWWW0200-080321	SWWW0220
Total Mercury					
SWWW0177-080121	10572927001	761563	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	761563	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	761563	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	761563	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	761563	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	761563	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	761563	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	761563	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	761563	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	761563	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	761563	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	761563	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	761563	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	761563	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	761563	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	761563	IS3	SWWW0190-080121	SWWW0192

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWWW0193-080121	10572927017	761563	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	761563	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	761563	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	761563	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	761565	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	761565	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	761565	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	761565	FB	SWWW0200-080321	SWWW0200
SWWW0201-080221	10572927025	761565	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	761565	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	761565	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	761565	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	761565	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	761565	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	762264	IS2	SWWW0200-080321	SWWW0207
SWWW0208-080121	10572927032	762264	IS1	SWWW0200-080321	SWWW0208
SWWW0209-080121	10572927033	762264	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	762264	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	762264	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	762264	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	762264	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	762264	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	762264	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	762264	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	761567	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	761567	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	761567	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	761567	IS1	SWWW0200-080321	SWWW0220

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	8/1/2021-8/3/2021	8/9/2021	No
Total Mercury	Aqueous	EPA 245.1	8/1/2021-8/3/2021	8/9/2021, 8/18/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Was MS/MSD within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10572927	
Matrix:	Aqueous		**Analysis:**	Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	
Sample Date(s):	8/1/2021-8/3/2021		**Analysis Date(s):**	8/13/2021, 8/16/21 - 8/18/21, 8/9/2021,	
Data Validator:	Michele Bay		**Validation Date:**	9/30/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWWW0177-080121	10572927001	761395	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	761395	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	761395	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	761395	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	761395	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	761395	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	761395	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	761395	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	761395	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	761395	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	761395	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	761395	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	761395	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	761395	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	761395	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	761395	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	761395	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	761395	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	761395	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	761395	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	761396	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	761396	IS1-N	SWWW0200-080321	SWWW0198

SWWW0199-080121	10572927023	761396	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	761396	FB	SWWW0200-080321	SWWW0200
SWWW0201-080221	10572927025	761396	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	761396	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	761396	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	761396	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	761396	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	761396	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	761396	IS2	SWWW0200-080321	SWWW0207
SWWW0208-080121	10572927032	761396	IS1	SWWW0200-080321	SWWW0208
SWWW0209-080121	10572927033	761396	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	761396	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	761396	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	761396	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	761396	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	761396	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	761396	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	761396	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	761397	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	761397	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	761397	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	761397	IS1	SWWW0200-080321	SWWW0220
Total Metals					
SWWW0177-080121	10572927001	761404	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	761404	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	761404	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	761404	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	761404	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	761404	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	761404	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	761404	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	761404	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	761404	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	761404	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	761404	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	761404	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	761404	FB	SWWW0190-080121	SWWW0190

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWWW0191-080121	10572927015	761404	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	761404	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	761404	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	761404	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	761404	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	761404	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	761405	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	761405	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	761405	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	761405	FB	SWWW0200-080321	SWWW0200
SWWW0201-080221	10572927025	761405	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	761405	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	761405	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	761405	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	761405	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	761405	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	761405	IS2	SWWW0200-080321	SWWW0207
SWWW0208-080121	10572927032	761405	IS1	SWWW0200-080321	SWWW0208
SWWW0209-080121	10572927033	761405	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	761405	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	761405	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	761405	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	761405	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	761405	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	761405	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	761405	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	761406	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	761406	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	761406	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	761406	IS1	SWWW0200-080321	SWWW0220

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	8/1/2021-8/3/2021	8/13/2021, 8/16/21 - 8/18/21	No
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/1/2021-8/3/2021	8/9/2021, 8/10/2021, 8/11/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

***QC Batch 761395**, MgDis was detected in MB 4059665 at a concentration ≤1.5X the MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Was MS result within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

***QC Batch 761395**, MS 4059667 CaDis recovery >130%. No associated CaDis sample results were qualified because the parent sample concentration was >4X the spike concentration. MS 4059668 CaDis recovery <70%, MSD 4059669 CaDis recovery >130%. No associated CaDis sample results were qualified because the parent sample concentrations were >4X the spike concentrations.*

***QC Batch 761396**, MS 4059673 MSD 4059674 CaDis recoveries >130%. No associated CaDis sample results were qualified because the parent sample concentrations were >4X the spike concentrations.*

***QC Batch 761397**, MS 4059677 MSD 4059678 CaDis recoveries >130%. No associated CaDis sample results were qualified because the parent sample concentrations were >4X the spike concentrations.*

***QC Batch 761404**, MS 4059738 MoTR recovery <70%. Associated MoTR sample results SWWW0181-SWWW0189 and SWWW0191-SWWW0194 were ≥MDL and qualified J-. The parent sample for this MS, SWWW0185, was collected downstream of a point source discharge, as were samples SWWW0181-SWWW0189 and SWWW0191-SWWW0194. Water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. The remaining samples in this QC batch were collected upstream of the discharge or were a field blank and not qualified since they are considered to be of a differing matrix.*

***QC Batch 761406**, MS 4059763 FeTR, MoTR, and ZnTR recoveries <70%, MSD 4059764 MoTR and ZnTR recoveries <70%. Associated FeTR, MoTR, and ZnTR sample results SWWW0217-SWWW0220 were ≥MDL and qualified J-.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10572927
Matrix:	Aqueous	**Analysis:**	Alkalinity: Total as CaCO3
Sample Date(s):	8/1/2021-8/3/2021	**Analysis Date(s):**	8/11/2021-8/13/2021
Data Validator:	Michele Bay	**Validation Date:**	9/30/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0177-080121	10572927001	763057	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	763057	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	763057	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	763057	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	762710	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	762710	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	762710	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	762710	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	763057	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	763057	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	763057	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	763057	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	763057	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	763057	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	763057	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	763057	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	763057	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	763057	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	763057	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	763057	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	763057	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	763057	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	763057	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	763364	FB	SWWW0200-080321	SWWW0200
SWWW0201-080221	10572927025	763058	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	763058	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	763058	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	763058	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	763058	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	763058	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	763058	IS2	SWWW0200-080321	SWWW0207
SWWW0208-080121	10572927032	763058	IS1	SWWW0200-080321	SWWW0208

LABORATORY DATA VALIDATION CHECKLIST FOR ALKALINITY

SWWW0209-080121	10572927033	763058	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	763058	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	763058	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	763058	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	763058	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	763058	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	763058	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	763058	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	763058	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	763058	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	763058	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	763058	IS1	SWWW0200-080321	SWWW0220

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/1/2021-8/3/2021	8/11/2021-8/13/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Was LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS/LCSD within control window of 90-110% recovery? Y_X_ N___

Was LCS/LCSD ≤ 20% RPD? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Was MS result within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Was MSD sample analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10572927
Matrix:	Aqueous	**Analysis:**	Total Dissolved Solids (TDS) Total Suspended Solids (TSS)
Sample Date(s):	8/1/2021-8/3/2021	**Analysis Date(s):**	8/6/2021
Data Validator:	Michele Bay	**Validation Date:**	9/30/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Dissolved Solids (TDS)					
SWWW0177-080121	10572927001	761620	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	761620	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	761620	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	761620	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	761620	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	761620	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	761620	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	761620	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	761620	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	761620	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	761620	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	761620	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	761620	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	761620	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	761620	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	761620	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	761620	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	761620	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	761620	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	761620	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	761623	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	761623	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	761623	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	761626	FB	SWWW0200-080321	SWWW0200

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0201-080221	10572927025	761626	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	761623	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	761623	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	761623	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	761623	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	761623	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	761623	IS2	SWWW0200-080321	SWWW0207
SWWW0208-080121	10572927032	761623	IS1	SWWW0200-080321	SWWW0208
SWWW0209-080121	10572927033	761623	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	761623	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	761623	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	761623	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	761623	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	761623	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	761623	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	761623	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	761623	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	761623	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	761626	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	761626	IS1	SWWW0200-080321	SWWW0220
Total Suspended Solids (TSS)					
SWWW0177-080121	10572927001	761621	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	761621	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	761621	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	761621	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	761621	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	761621	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	761621	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	761621	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	761621	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	761621	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	761621	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	761621	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	761621	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	761621	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	761621	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	761621	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	761621	IS2	SWWW0190-080121	SWWW0193

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

SWWW0194-080121	10572927018	761621	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	761621	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	761621	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	761624	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	761624	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	761624	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	761627	FB	SWWW0200-080321	SWWW0200
SWWW0201-080221	10572927025	761627	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	761624	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	761624	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	761624	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	761624	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	761624	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	761624	IS2	SWWW0200-080321	SWWW0207
SWWW0208-080121	10572927032	761624	IS1	SWWW0200-080321	SWWW0208
SWWW0209-080121	10572927033	761624	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	761624	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	761624	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	761624	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	761624	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	761624	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	761624	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	761624	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	761624	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	761624	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	761627	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	761627	IS1	SWWW0200-080321	SWWW0220

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/1/2021-8/3/2021	8/6/2021	No
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/1/2021-8/3/2021	8/6/2021	No

LABORATORY DATA VALIDATION CHECKLIST FOR TDS and TSS

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

***QC Batch 761620**, TDS was detected in MB 4060781 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y____ N_____ NA_X_
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y___ N_X_
Were any data flagged because of LDS problems?	Y_X_ N___

Describe corrective actions taken because of LDS problems.

***QC Batch 761621**, TSS sample 10572927009 and laboratory sample duplicate 4060788 RPD>10% and the sample and duplicate values >5X RL. Associated TSS sample results SWWW0177-SWWW0189, SWWW0191-SWWW0193, and SWWW0196 were ≥MDL and qualified J. Associated TSS results in samples SWWW0194 and SWWW0195 were non-detect and qualified UJ. Since TSS is a gravimetric analysis and filtration is not prone to chemical interferences, water chemistry is not considered in qualifying associated data.*

***QC Batch 761624**, TSS sample 10572927021 and laboratory sample duplicate 4060797 RPD>10% and the sample and duplicate values >5X RL. Associated TSS results in SWWW0197-SWWW0199, SWWW0202, SWWW0203, SWWW0209-SWWW0218 were ≥MDL and qualified J. Associated TSS results in SWWW 0204-SWWW0208 were non-detect and qualified UJ.*

***QC Batch 761627**, TSS sample 10572927043 and laboratory sample duplicate 4060809 RPD>10% and the sample and duplicate values >5X RL. Associated TSS results for SWWW0201, SWWW0219, and SWWW0220 were ≥MDL and qualified J. TSS sample 10572927044 and lab sample duplicate 4060810 RPD>10%, but the sample and duplicate results were <5X RL and the absolute difference between samples was <RL thus, no qualifiers were assigned based on this laboratory duplicate RPD.*

Field blanks are not assessed for duplicate precision since they are made up of DI water.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10572927
Matrix:	Aqueous	**Analysis:**	Ammonia (NH3)
Sample Date(s):	8/1/2021-8/3/2021	**Analysis Date(s):**	8/9/2021, 8/15/2021
Data Validator:	Michele Bay	**Validation Date:**	9/30/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0177-080121	10572927001	762149	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	762149	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	762149	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	762149	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	762149	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	762149	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	762149	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	763544	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	763544	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	763544	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	763544	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	763544	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	763544	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	763544	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	763544	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	763544	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	763544	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	763544	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	763544	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	763544	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	763544	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	763544	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	763544	IS1-D	SWWW0200-080321	SWWW0199

LABORATORY DATA VALIDATION CHECKLIST FOR AMMONIA

SWWW0200-080321	10572927024	763544	FB	SWWW0200-080321	SWWW0200
SWWW0217-080121	10572927041	763544	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	763544	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	763544	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	763545	IS1	SWWW0200-080321	SWWW0220

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Ammonia (NH3)	Aqueous	EPA 350.1	8/1/2021-8/3/2021	8/9/2021, 8/15/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD samples analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10572927	
Matrix:	Aqueous		**Analysis:**	Total Kjedahl Nitrogen (TKN)	
Sample Date(s):	8/1/2021-8/3/2021		**Analysis Date(s):**	8/16/2021	
Data Validator:	Michele Bay		**Validation Date:**	9/30/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWWW0177-080121	10572927001	737973	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	737973	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	737973	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	737973	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	737973	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	737973	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	737973	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	737973	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	737973	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	737973	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	737973	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	737973	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	737973	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	737973	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	737973	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	737973	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	737973	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	737973	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	737973	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	737973	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	737974	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	737974	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	737974	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	737974	FB	SWWW0200-080321	SWWW0200
SWWW0217-080121	10572927041	737974	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	737974	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	737974	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	737974	IS1	SWWW0200-080321	SWWW0220
1. Holding Times					
Analyte	**Matrix**	**Method**	**Collection Date**	**Analysis Date**	**Affected data flagged**

LABORATORY DATA VALIDATION CHECKLIST FOR TKN

Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	8/1/2021-8/3/2021	8/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Note that the LDS requirement can be satisfied by either a MSD or LDS. Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was the MS analyzed at the frequency of 1/10 samples; and if a MSD was analyzed, was it analyzed at a frequency of 1/20 samples? Y_X_ N___

Was the MS (and MSD if analyzed) within control window of 90-110% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

If an MSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the MSD ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS (or MSD if analyzed) recovery problems? Y_X_ N___

If an MSD was analyzed, were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 737973** , MS 2958859 MSD 2958860 TKN recoveries >110%. Associated TKN sample results SWWW0181-SWWW0184, SWWW0186, SWWW0187, and SWWW0191-SWBF0194 were ≥MDL and qualified J+. Associated TKN sample results SWWW0185, SWWW0188, and SWWW0189 were non-detect and not qualified. The parent sample (SWWW0185) was collected downstream of a point source discharge, as were samples SWWW0181-SWWW0189 and SWWW0191-SWWW0194. Water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Thus TKN results for upstream samples SWWW0177-SWWW0180, SWWW0195, and SWWW0196 were not qualified based on MS recovery. FBs are not assessed for MS recovery since they are of a differing matrix.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10572927
Matrix:	Aqueous	**Analysis:**	Nitrate/Nitrate (NO2/NO3)
Sample Date(s):	8/1/2021-8/3/2021	**Analysis Date(s):**	8/6/2021
Data Validator:	Michele Bay	**Validation Date:**	9/30/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0177-080121	10572927001	761838	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	761838	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	761838	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	761838	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	761838	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	761838	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	761838	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	761838	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	761838	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	761838	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	761838	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	761838	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	761838	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	761838	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	761838	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	761838	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	761838	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	761838	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	761838	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	761838	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	761840	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	761840	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	761840	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	761840	FB	SWWW0200-080321	SWWW0200
SWWW0201-080221	10572927025	761840	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	761840	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	761840	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	761840	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	761840	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	761840	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	761840	IS2	SWWW0200-080321	SWWW0207

LABORATORY DATA VALIDATION CHECKLIST FOR NO_2+NO_3

SWWW0208-080121	10572927032	761840	IS1	SWWW0200-080321	SWWW0208
SWWW0209-080121	10572927033	761840	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	761840	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	761840	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	761840	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	761840	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	761840	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	761840	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	761840	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	761844	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	761844	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	761844	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	761844	IS1	SWWW0200-080321	SWWW0220

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/1/2021-8/3/2021	8/6/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10572927
Matrix:	Aqueous	**Analysis:**	Dissolved Organic Carbon (DOC)
Sample Date(s):	8/1/2021-8/3/2021	**Analysis Date(s):**	8/11/2021, 8/12/2021, 8/16/2021
Data Validator:	Michele Bay	**Validation Date:**	9/30/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0177-080121	10572927001	737476	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	737476	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	737476	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	737476	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	738148	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	737476	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	737476	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	737476	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	738148	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	737476	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	737476	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	738148	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	738148	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	737476	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	737476	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	737476	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	737476	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	737476	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	738148	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	738148	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	738148	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	738148	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	738148	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	738148	FB	SWWW0200-080321	SWWW0200
SWWW0217-080121	10572927041	737476	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	737476	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	737476	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	737476	IS1	SWWW0200-080321	SWWW0220

LABORATORY DATA VALIDATION CHECKLIST FOR DOC

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	8/1/2021-8/3/2021	8/11/2021, 8/12/2021, 8/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

4. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/20 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 25% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

4. Matrix Spike (MS)

Was the MS analyzed at the frequency of 1/20 samples ? Y_X_ N___

Was the MS within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

Were any data flagged because of MS recovery problems? Y_X_ N___

Describe corrective actions taken because of MS recovery problems.

QC Batch 737476 *, MS 2956983 MSD 2956984 DOC recoveries >120%. Associated DOC sample results SWWW0177-SWWW0180 were ≥MDL and qualified J+. The parent sample (SWWW0180) was collected upstream of a point source discharge as were samples SWWW0177-SWWW0179. Water chemistry upstream of the discharge differs from water chemistry downstream of the discharge. Samples SWWW 0182-SWWW0184, SWWW0186, SWWW0187, SWWW0191-SWWW0194, and SWWW0217-SWWW0220 were collected downstream of the discharge and of a differing matrix; thus, DOC results in the downstream samples were not qualified based on MS recovery. FBs are not assessed for MS recovery since they are of a differing matrix.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10572927
Matrix:	Aqueous	**Analysis:**	Sulfate (SO4)
Sample Date(s):	8/1/2021-8/3/2021	**Analysis Date(s):**	8/12/2021, 8/16/2021
Data Validator:	Michele Bay	**Validation Date:**	9/30/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0177-080121	10572927001	762774	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	762774	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	762774	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	762774	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	762774	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	762774	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	762774	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	762774	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	762774	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	762774	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	762774	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	762774	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	762774	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	762774	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	762774	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	762774	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	762774	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	763351	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	763351	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	763351	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	763351	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	763351	IS1-N	SWWW0200-080321	SWWW0198

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWWW0199-080121	10572927023	763351	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	763351	FB	SWWW0200-080321	SWWW0200
SWWW0201-080221	10572927025	763351	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	763351	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	763351	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	763351	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	763351	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	763351	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	763351	IS2	SWWW0200-080321	SWWW0207
SWWW0208-080121	10572927032	763352	IS1	SWWW0200-080321	SWWW0208
SWWW0209-080121	10572927033	763352	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	763352	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	763352	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	763352	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	763352	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	763352	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	763352	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	763352	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	763352	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	763352	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	763352	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	763352	IS1	SWWW0200-080321	SWWW0220

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	8/1/2021-8/3/2021	8/12/2021, 8/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 762774** , MS 4066755 MSD 4066756 SO4 recoveries <80%, but the parent sample concentration was >4X the spike concentration thus, no associated data were qualified.*

***QC Batch 763352** , MS 4069587 MSD 4069588 SO4 recoveries >120%, but the parent sample concentration was >4X the spike concentration thus, no associated data were qualified.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHORUS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10572927	
Matrix:	Aqueous		**Analysis:**	Total Phosphorus (Phos)	
Sample Date(s):	8/1/2021-8/3/2021		**Analysis Date(s):**	8/11/2021, 8/18/2021	
Data Validator:	Michele Bay		**Validation Date:**	9/30/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWWW0177-080121	10572927001	762373	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	762373	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	762373	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	762373	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	762373	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	762373	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	762373	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	762373	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	762373	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	763942	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	763942	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	763942	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	763942	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	763942	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	763942	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	763942	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	763942	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	763942	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	763942	IS4	SWWW0190-080121	SWWW0195
SWWW0196-080121	10572927020	763942	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	763942	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	763942	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	763942	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	763942	FB	SWWW0200-080321	SWWW0200

LABORATORY DATA VALIDATION CHECKLIST FOR PHOSPHORUS

SWWW0217-080121	10572927041	763942	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	763942	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	763942	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	764023	IS1	SWWW0200-080321	SWWW0220

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Phosphorus (Phos)	Aqueous	SM4500P-F	8/1/2021-8/3/2021	8/11/2021, 8/18/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was Laboratory Control Sample (LCS) analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 90-110% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/20 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For sample & duplicate values > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 764023**, MS 4073097 total P recovery >120% and the RPD>30% between MS 4073097 and MSD 4073098, but the parent sample was not project associated and matrix similarity could not be determined thus, no associated total P results were qualified.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10572927
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn, Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn, Alkalinity: Total as CaCO3, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Nitrate/Nitrate (NO2/NO3), Ammonia (NH3), Total Kjedahl Nitrogen (TKN), Dissolved Organic Carbon (DOC), Total Phosphorus (Phos), Sulfate (SO4)
Sample Date(s):	8/1/2021-8/3/2021		
Data Validator:	Michele Bay	**Validation Date:**	9/30/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWWW0177-080121	10572927001	IS4	SWWW0190-080121	SWWW0177
SWWW0178-080121	10572927002	IS3	SWWW0190-080121	SWWW0178
SWWW0179-080121	10572927003	IS2	SWWW0190-080121	SWWW0179
SWWW0180-080121	10572927004	IS1	SWWW0190-080121	SWWW0180
SWWW0181-080121	10572927005	IS4	SWWW0190-080121	SWWW0181
SWWW0182-080121	10572927006	IS3	SWWW0190-080121	SWWW0182
SWWW0183-080121	10572927007	IS2	SWWW0190-080121	SWWW0183
SWWW0184-080121	10572927008	IS1	SWWW0190-080121	SWWW0184
SWWW0185-080121	10572927009	IS4	SWWW0190-080121	SWWW0185
SWWW0186-080121	10572927010	IS3	SWWW0190-080121	SWWW0186
SWWW0187-080121	10572927011	IS2	SWWW0190-080121	SWWW0187
SWWW0188-080121	10572927012	IS1-N	SWWW0190-080121	SWWW0188
SWWW0189-080121	10572927013	IS1-D	SWWW0190-080121	SWWW0189
SWWW0190-080121	10572927014	FB	SWWW0190-080121	SWWW0190
SWWW0191-080121	10572927015	IS4	SWWW0190-080121	SWWW0191
SWWW0192-080121	10572927016	IS3	SWWW0190-080121	SWWW0192
SWWW0193-080121	10572927017	IS2	SWWW0190-080121	SWWW0193
SWWW0194-080121	10572927018	IS1	SWWW0190-080121	SWWW0194
SWWW0195-080121	10572927019	IS4	SWWW0190-080121	SWWW0195

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWWW0196-080121	10572927020	IS3	SWWW0190-080121	SWWW0196
SWWW0197-080121	10572927021	IS2	SWWW0190-080121	SWWW0197
SWWW0198-080121	10572927022	IS1-N	SWWW0200-080321	SWWW0198
SWWW0199-080121	10572927023	IS1-D	SWWW0200-080321	SWWW0199
SWWW0200-080321	10572927024	FB	SWWW0200-080321	SWWW0200
SWWW0201-080221	10572927025	IS4	SWWW0200-080321	SWWW0201
SWWW0202-080121	10572927026	IS3	SWWW0200-080321	SWWW0202
SWWW0203-080121	10572927027	IS2	SWWW0200-080321	SWWW0203
SWWW0204-080121	10572927028	IS1	SWWW0200-080321	SWWW0204
SWWW0205-080121	10572927029	IS4	SWWW0200-080321	SWWW0205
SWWW0206-080121	10572927030	IS3	SWWW0200-080321	SWWW0206
SWWW0207-080121	10572927031	IS2	SWWW0200-080321	SWWW0207
SWWW0208-080121	10572927032	IS1	SWWW0200-080321	SWWW0208
SWWW0209-080121	10572927033	IS4	SWWW0200-080321	SWWW0209
SWWW0210-080121	10572927034	IS3	SWWW0200-080321	SWWW0210
SWWW0211-080121	10572927035	IS2	SWWW0200-080321	SWWW0211
SWWW0212-080121	10572927036	IS1	SWWW0200-080321	SWWW0212
SWWW0213-080121	10572927037	IS4	SWWW0200-080321	SWWW0213
SWWW0214-080121	10572927038	IS3	SWWW0200-080321	SWWW0214
SWWW0215-080121	10572927039	IS2	SWWW0200-080321	SWWW0215
SWWW0216-080121	10572927040	IS1	SWWW0200-080321	SWWW0216
SWWW0217-080121	10572927041	IS4	SWWW0200-080321	SWWW0217
SWWW0218-080121	10572927042	IS3	SWWW0200-080321	SWWW0218
SWWW0219-080121	10572927043	IS2	SWWW0200-080321	SWWW0219
SWWW0220-080121	10572927044	IS1	SWWW0200-080321	SWWW0220

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/1/2021-8/3/2021	8/9/2021
Total Mercury	Aqueous	EPA 245.1	8/1/2021-8/3/2021	8/9/2021, 8/18/2021
Dissolved Metals: Al, As, Ca, Cd, Cu, Fe, Pb, Mg, Mo, Ag, Zn	Aqueous	EPA 200.8	8/1/2021-8/3/2021	8/13/2021, 8/16/21 - 8/18/21
Total Metals: Al, As, Cd, Cu, Fe, Pb, Mo, Ag, Zn	Aqueous	EPA 200.8	8/1/2021-8/3/2021	8/9/2021, 8/10/2021, 8/11/21
Alkalinity: Total as CaCO3	Aqueous	SM 2320B	8/1/2021-8/3/2021	8/11/2021-8/13/2021
Total Dissolved Solids (TDS)	Aqueous	SM 2540C	8/1/2021-8/3/2021	8/6/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/1/2021-8/3/2021	8/6/2021
Nitrate/Nitrate (NO2/NO3)	Aqueous	SM4500NO3-H	8/1/2021-8/3/2021	8/6/2021
Ammonia (NH3)	Aqueous	EPA 350.1	8/1/2021-8/3/2021	8/9/2021, 8/15/2021
Total Kjedahl Nitrogen (TKN)	Aqueous	EPA 351.2	8/1/2021-8/3/2021	8/16/2021
Dissolved Organic Carbon (DOC)	Aqueous	SM 5310C	8/1/2021-8/3/2021	8/11/2021, 8/12/2021, 8/16/2021
Total Phosphorus (Phos)	Aqueous	SM4500P-F	8/1/2021-8/3/2021	8/11/2021, 8/18/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/1/2021-8/3/2021	8/12/2021, 8/16/2021

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP (< MDL)? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

*DOC and MgDis were detected in FB **SWWW0190** at concentrations ≤1.5X MDL thus, were not further assessed per TREC data validation guidelines.*

*CaDis, Hardness, MgDis, and PbDis were detected in **FB SWWW0200** at concentrations ≤1.5X MDL thus, were not further assessed per TREC data validation guidelines.*

*CaDis, Hardness, NH3, PbDis, and PbTR were detected in **FB SWWW0190** at concentrations >1.5X MDL. Associated CaDis and Hardness sample results were >10X the FB value and were not qualified. Associated NH3 sample results SWWW0179, SWWW0180, SWWW0182, SWWW0183, and SWWW0186 were >RL, but ≤10X the FB value and were qualified J+. Associated NH3 sample results SWWW0178, SWWW 0181, SWWW0185, SWWW0187, SWWW0191, and SWWW0192 were ≥MDL, but ≤RL and were qualified UJ. Associated NH3 sample results SWWW0177, SWWW0184, SWWW0188, SWWW0189, and SWWW0193-SWWW0197 non-detect and were not qualified.*

Associated PbDis sample results SWWW0179-SWWW0181, SWWW0184, SWWW0185, SWWW0194, SWWW0196, and SWWW0197 were >RL, but ≤10X the FB value and were qualified J+. Associated PbDis sample results SWWW0177, SWWW0178, SWWW0188, SWWW0189, and SWWW0195 were ≥MDL, but ≤RL and were qualified UJ. Associated PbDis sample results SWWW 0182, SWWW0183, SWWW0186, SWWW0187, and SWWW0191-SWWW0193 were >10X the FB value and were not qualified.

Associated PbTR sample results SWWW0185, SWWW0194, and SWWW0195 were >RL, but ≤10X the FB value and were qualified J+. Associated PbTR sample results SWWW 0177-SWWW0184, SWWW0186-SWWW0189, SWWW0191-SWWW0193, SWWW0196, and SWWW0197 were >10X the FB value and were not qualified.

*DOC and PbTR were detected in **FB SWWW0200** at concentrations >1.5X MDL. Associated DOC sample result SWWW0217 was >RL, but ≤10X the FB value and was qualified J+. Associated DOC sample results SWWW 0198, SWWW0199, and SWWW0218-SWWW0220 were >10X the FB value and were not qualified. Associated PbTR sample results SWWW0204-SWWW0208 were >RL, but ≤10X the FB value and were qualified J+. Associated PbTR sample results SWWW 0198, SWWW0199, SWWW0201-SWWW0203 and SWWW0209-SWWW0220 were >10X the FB value and were not qualified.*

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP (1 in 20)? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP (< 20% RPD or Δ ≤ RL as applicable)? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Field duplicate set SWWW0188/SWWW0189 *TSS RPD>20%, but the primary and duplicate sample results were <5X RL and the absolute difference between primary and duplicate sample results was <RL thus, no associated data were qualified.*

Field duplicate set SWWW0198/SWWW0199 *AgTR and TSS RPDs>20%. The primary and duplicates sample results for AgTR were <5X RL and the absolute difference between primary and duplicate sample results was <RL thus, no associated AgTR sample results were qualified. The primary and duplicate sample results for TSS were >5X the RL and the RPD was 53%. Associated TSS sample results SWWW0198, SWWW0199, and SWWW0201-SWWW0203, and SWWW0209-SWWW0220 were > the MDL and qualified J. TSS results for SWWW0204-SWWW0208 were < the MDL and qualified UJ.*

Aside from field blanks, matrix similarity is not considered for gravimetric analyses since chemical interferences are not relevant.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

Attachment B1
Normal Flow Level A/B Screening Checklists

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10545858	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X___
Sample Matrix:	Water	3) Level B ___X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10550036	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X__
Sample Matrix:	Water	3) Level B ___X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10577494	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X___
Sample Matrix:	Water	3) Level B __X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10573218	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10569157	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10564925	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X__
Sample Matrix:	Water	3) Level B ___X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10551370	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X___
Sample Matrix:	Water	3) Level B __X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10561813	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X___
Sample Matrix:	Water	3) Level B __X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10555588	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X____
Sample Matrix:	Water	3) Level B ___X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10584279	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X__
Sample Matrix:	Water	3) Level B ___X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10585797	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X___
Sample Matrix:	Water	3) Level B __X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10590953	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X___
Sample Matrix:	Water	3) Level B __X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	Yes
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Attachment B2
Wet Weather Level A/B Screening Checklists

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10568655	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10574117	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10575368	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X___
Sample Matrix:	Water	3) Level B __X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10565256	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X___
Sample Matrix:	Water	3) Level B ___X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10576060	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X___
Sample Matrix:	Water	3) Level B ___X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10562853	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X___
Sample Matrix:	Water	3) Level B ___X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10572927	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10562380	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X___
Sample Matrix:	Water	3) Level B __X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Appendix B
Stage and Flow Data

Figure B1. 2021 BPSOU Stage and Discharge Hydrographs - SS-01
Figure B2. 2021 BPSOU Stage Hydrograph - SS-04
Figure B3. 2021 BPSOU Stage and Discharge Hydrographs - SS-05
Figure B4. 2021 BPSOU Stage and Discharge Hydrographs - SS-05A
Figure B5. 2021 BPSOU Stage and Discharge Hydrographs - SS-06A
Figure B6. 2021 BPSOU Stage and Discharge Hydrographs - SS-06G
Figure B7. 2021 BPSOU Stage and Discharge Hydrographs - MSD-3A
Figure B8. 2021 BPSOU Stage Hydrograph - SS-CB1
Figure B9. 2021 BPSOU Stage Hydrograph - SS-CB8P
Figure B10. 2021 BPSOU Stage Hydrograph - SS-CB9
Figure B11. 2021 BPSOU Discharge Hydrograph - CT-EFS7
Figure B12. 2021 BPSOU Discharge Hydrograph - SS-STP
Figure B13. 2021 BPSOU Discharge Hydrograph - SS-MPTP
Figure B14. 2021 BPSOU Stage and Discharge Hydrographs - SS-1.35 (USGS 12323233)
Figure B15. 2021 BPSOU Stage and Discharge Hydrographs - SS-07 (USGS 12323250)
Figure B16. 2021 BPSOU pH - SS-01
Figure B17. 2021 BPSOU pH - SS-06G
Figure B18. 2021 BPSOU pH - SS-07

Butte Priority Soils Operable Unit (BPSOU)
Silver Bow Creek/Butte Area Site

Appendix B: Stage and Flow Hydrographs
Draft 2021 Site-Wide Surface Water Normal Flow and Wet Weather Data

Atlantic Richfield

April 2022

LIST OF FIGURES

Figure B1. BPSOU 2021 Stage and Discharge Hydrographs – SS-01
Figure B2. BPSOU 2021 Stage Hydrograph – SS-04
Figure B3. BPSOU 2021 Stage and Discharge Hydrographs – SS-05
Figure B4. BPSOU 2021 Stage and Discharge Hydrographs – SS-05A
Figure B5. BPSOU 2021 Stage and Discharge Hydrographs – SS-06A
Figure B6. BPSOU 2021 Stage and Discharge Hydrographs – SS-06G
Figure B7. BPSOU 2021 Stage and Discharge Hydrographs – MSD-3A
Figure B8. BPSOU 2021 Stage Hydrograph –SS-CB1
Figure B9. BPSOU 2021 Stage Hydrograph – SS-CB8P
Figure B10. BPSOU 2021 Stage Hydrograph – SS-CB9
Figure B11. BPSOU 2021 Discharge Hydrograph – CT-EFS7
Figure B12. BPSOU 2021 Discharge Hydrograph – SS-STP
Figure B13. BPSOU 2021 Discharge Hydrograph – SS-MPTP
Figure B14. BPSOU 2021 Discharge Hydrographs – SS-01.35 (USGS 12323233)
Figure B15. BPSOU 2021 Discharge Hydrograph – SS-07 (USGS 12323250)
Figure B16. BPSOU 2021 Continuous pH – SS-01
Figure B17. BPSOU 2021 Continuous pH – SS-06G
Figure B18. BPSOU 2021 Continuous pH – SS-07

Figure B1. BPSOU 2021 Hydrograph - SS-01

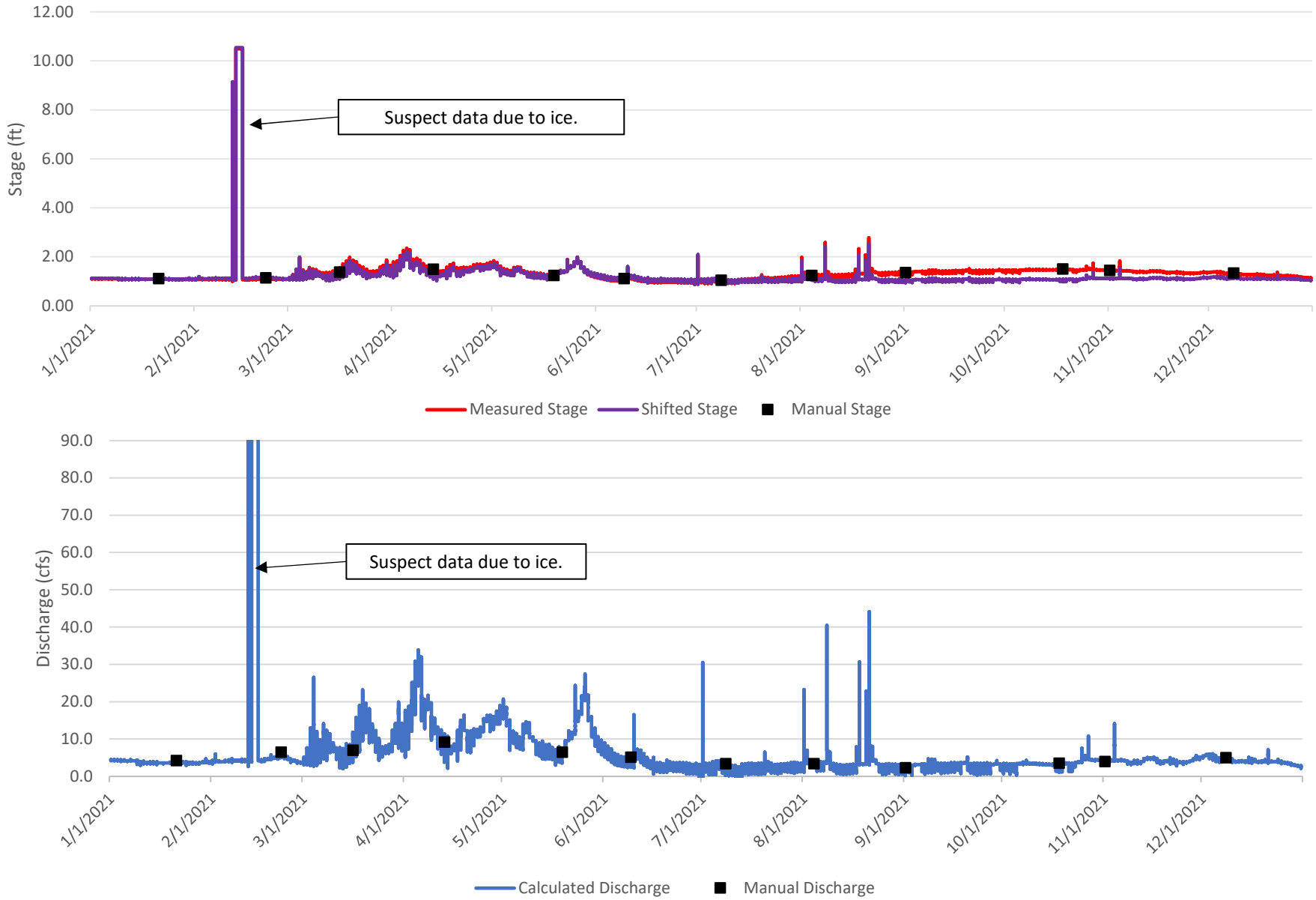


Figure B2. BPSOU 2021 Stage Hydrograph - SS-04

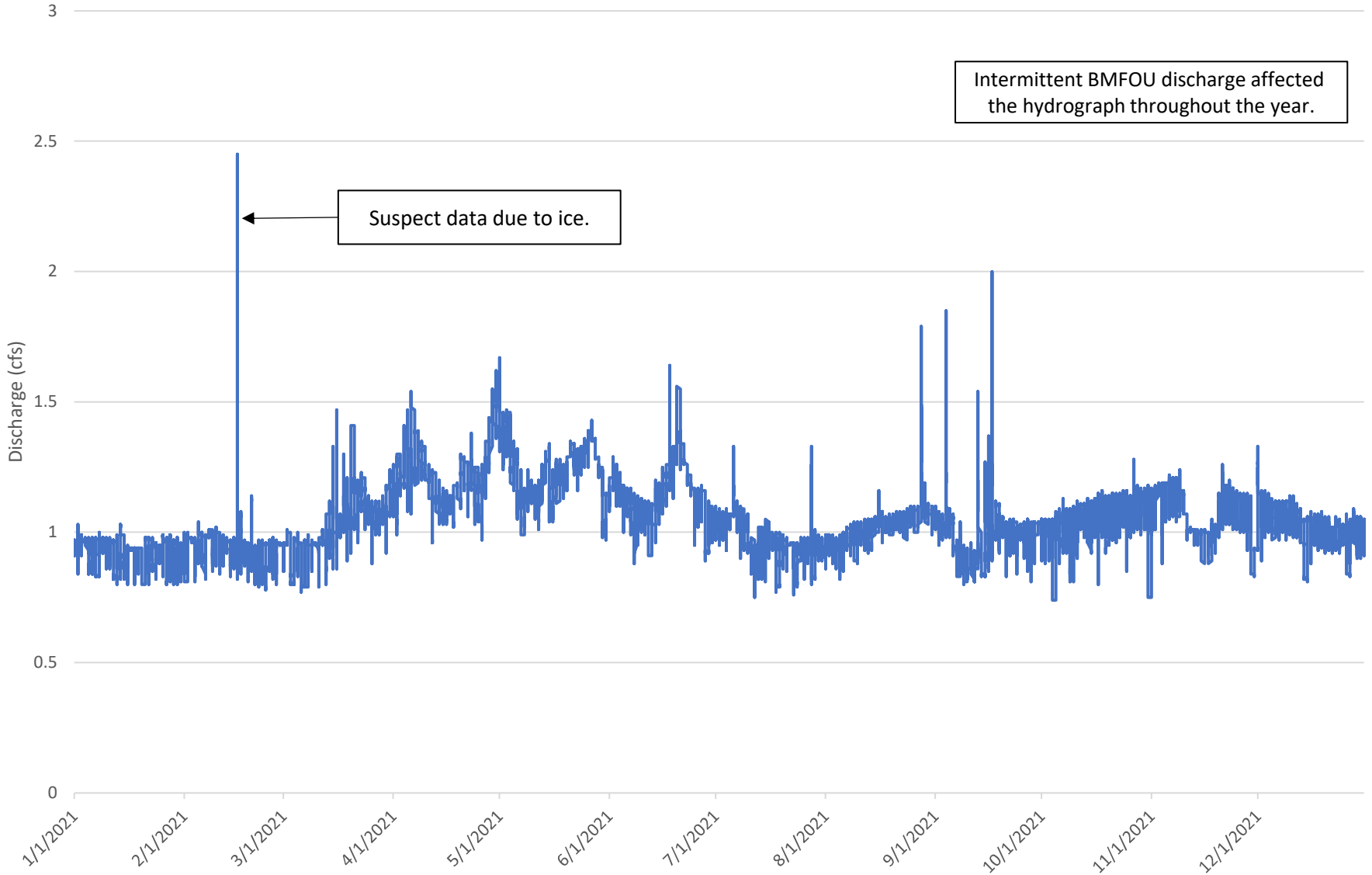


Figure B3. BPSOU 2021 Hydrograph - SS-05

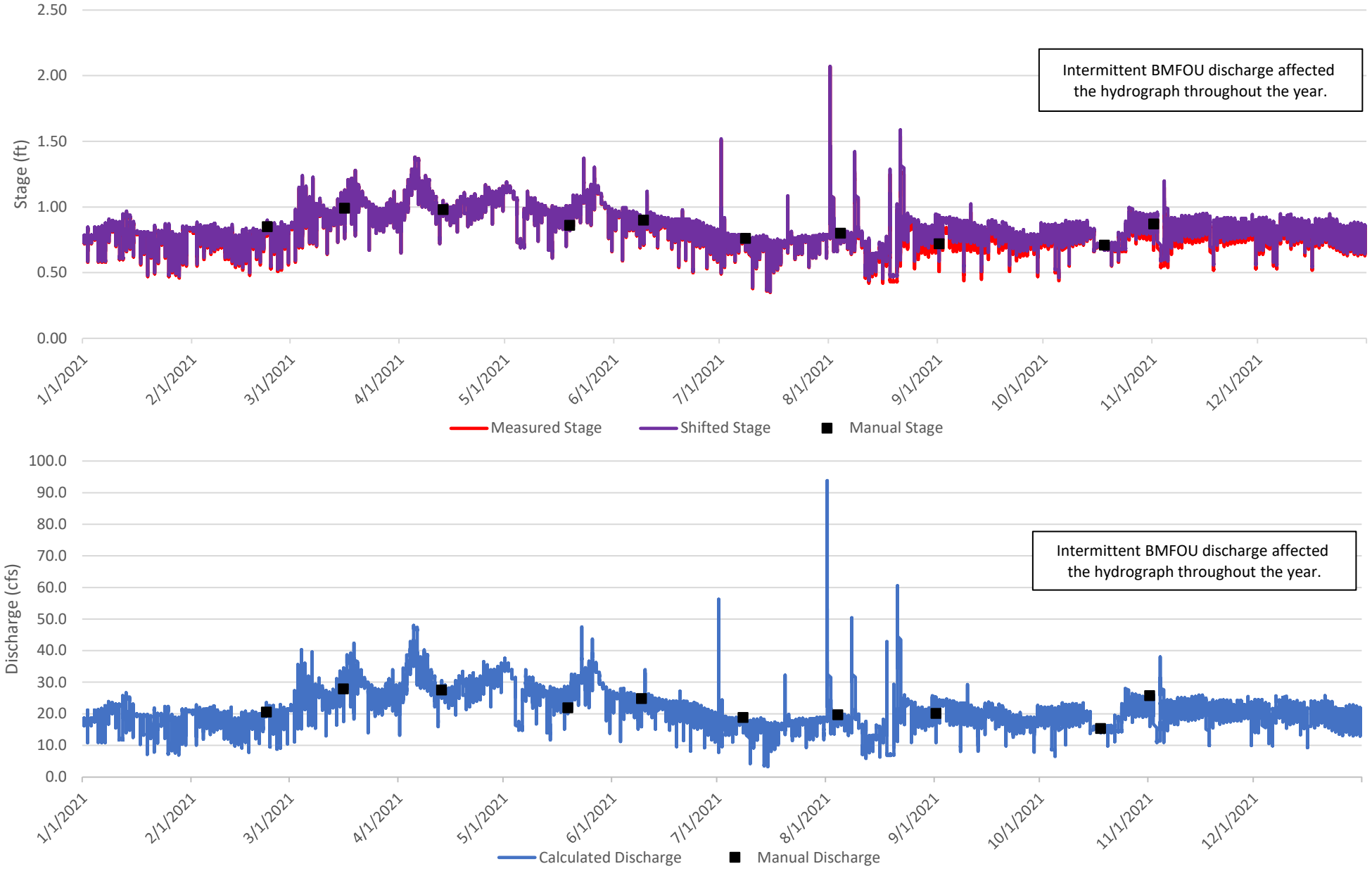


Figure B4. BPSOU 2021 Stage and Discharge Hydrographs - SS-05A

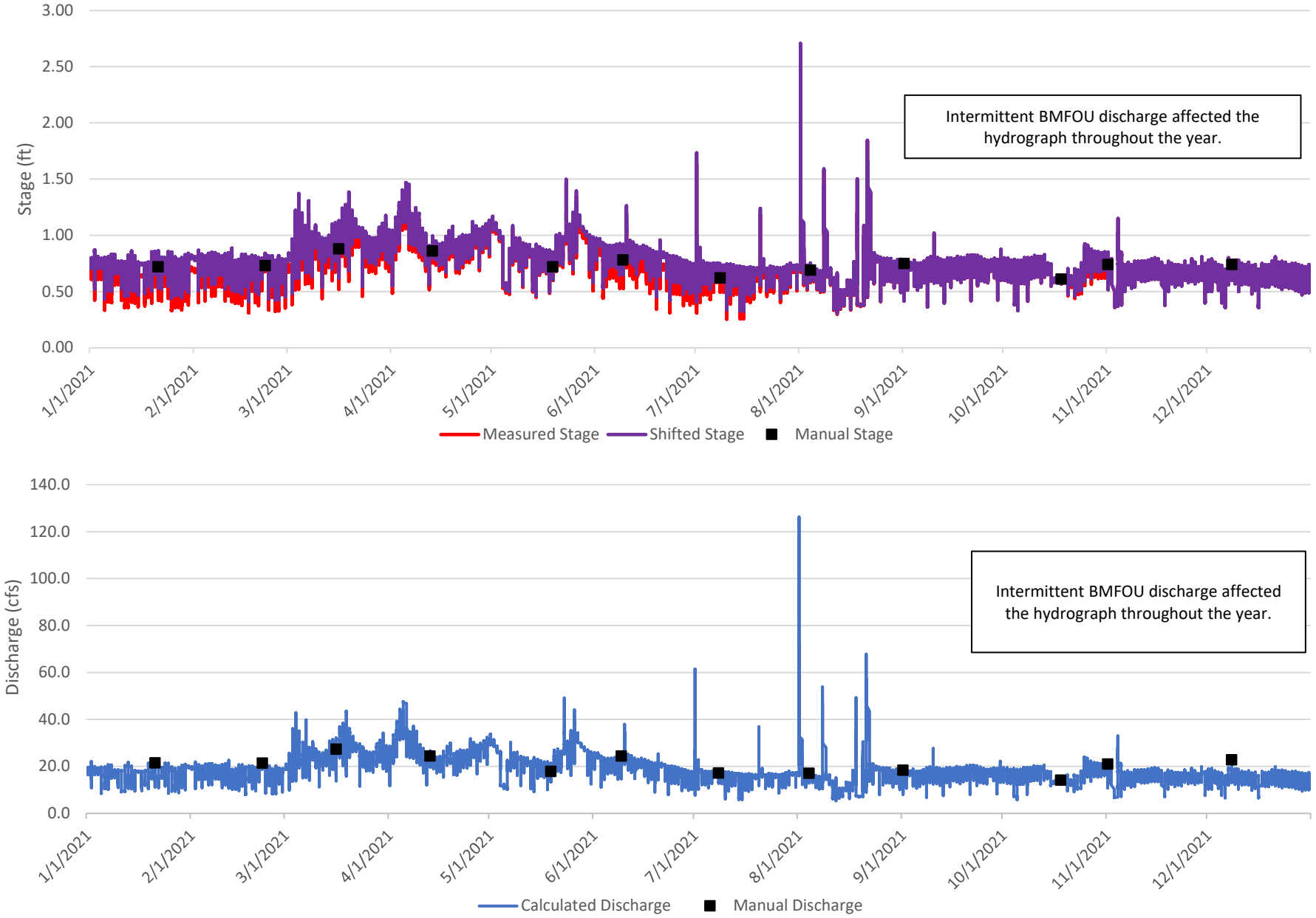


Figure B5. BPSOU 2021 Stage and Discharge Hydrographs - SS-06A

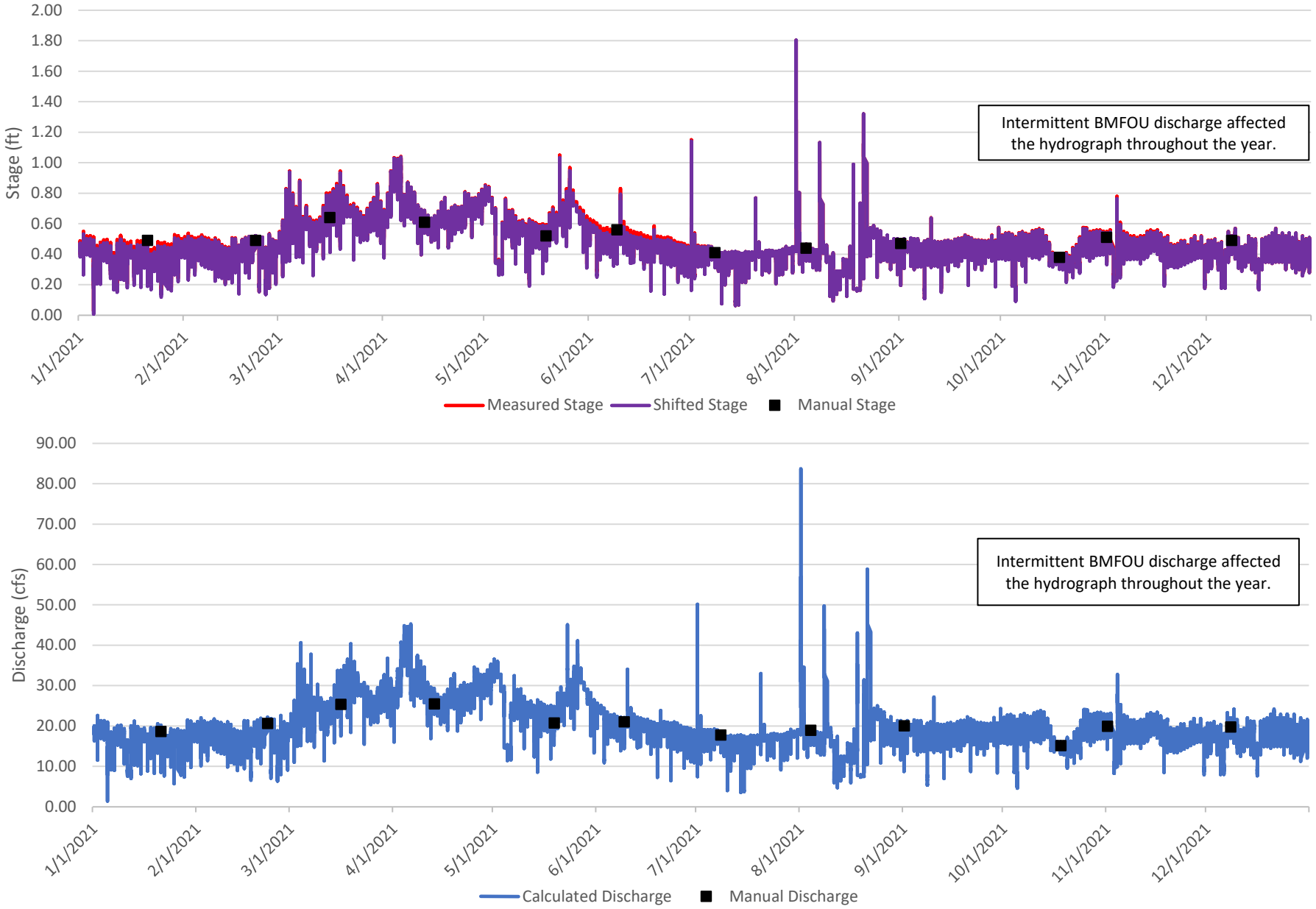


Figure B6. BPSOU 2021 Stage and Discharge Hydrographs - SS-06G

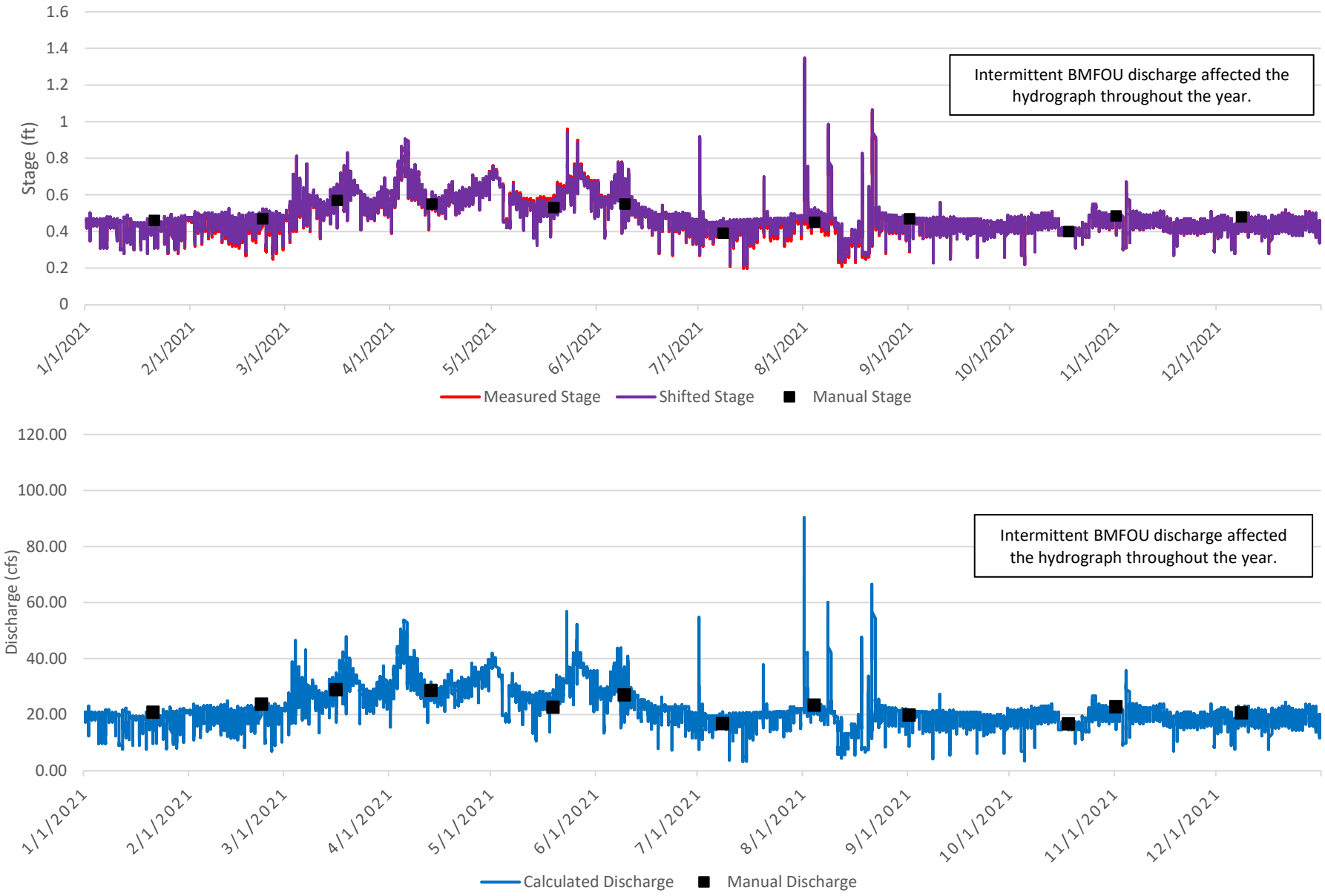


Figure B7. BPSOU 2021 Stage and Discharge Hydrographs - MSD-3A

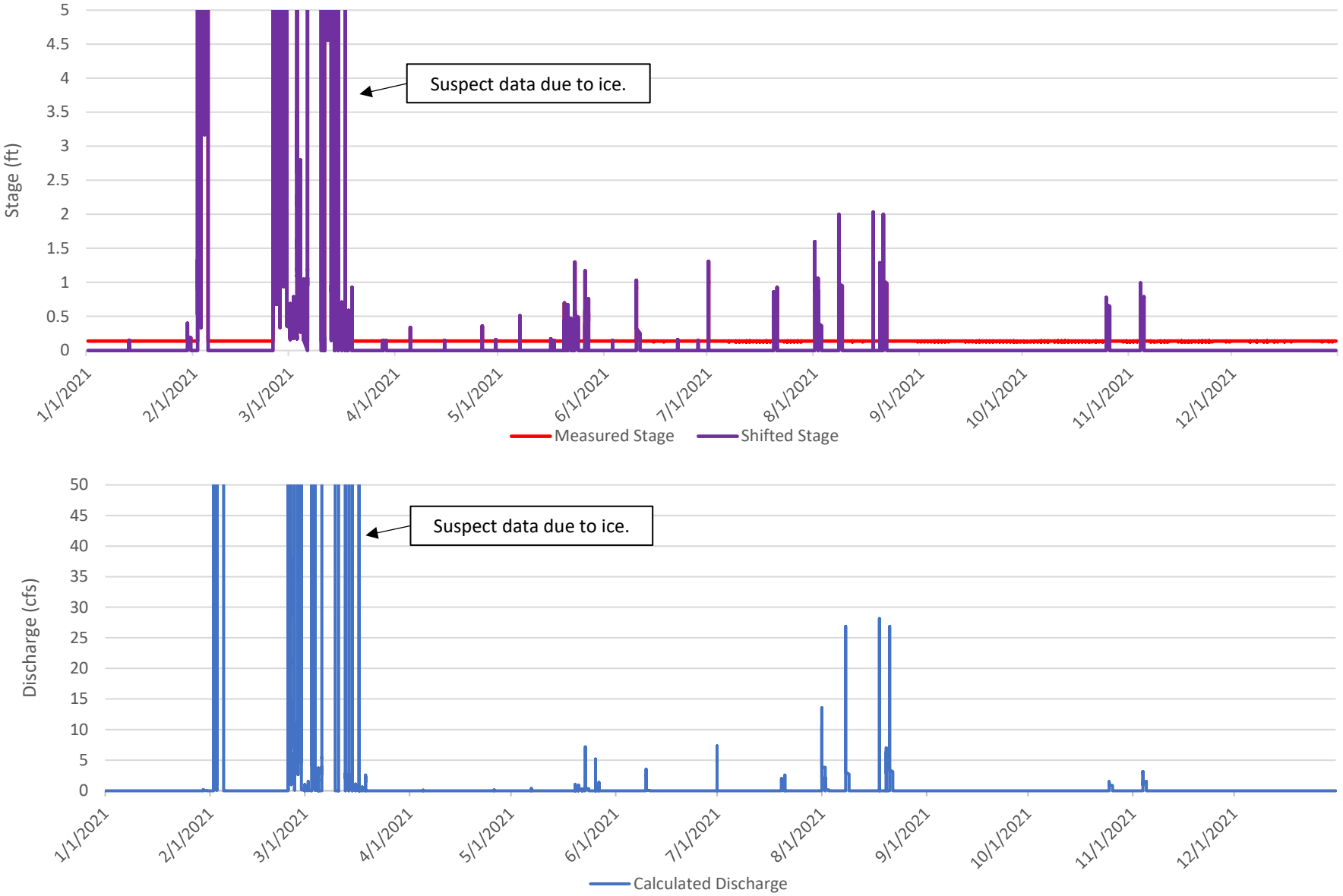


Figure B8. BPSOU 2021 Stage Hydrograph - CB-1

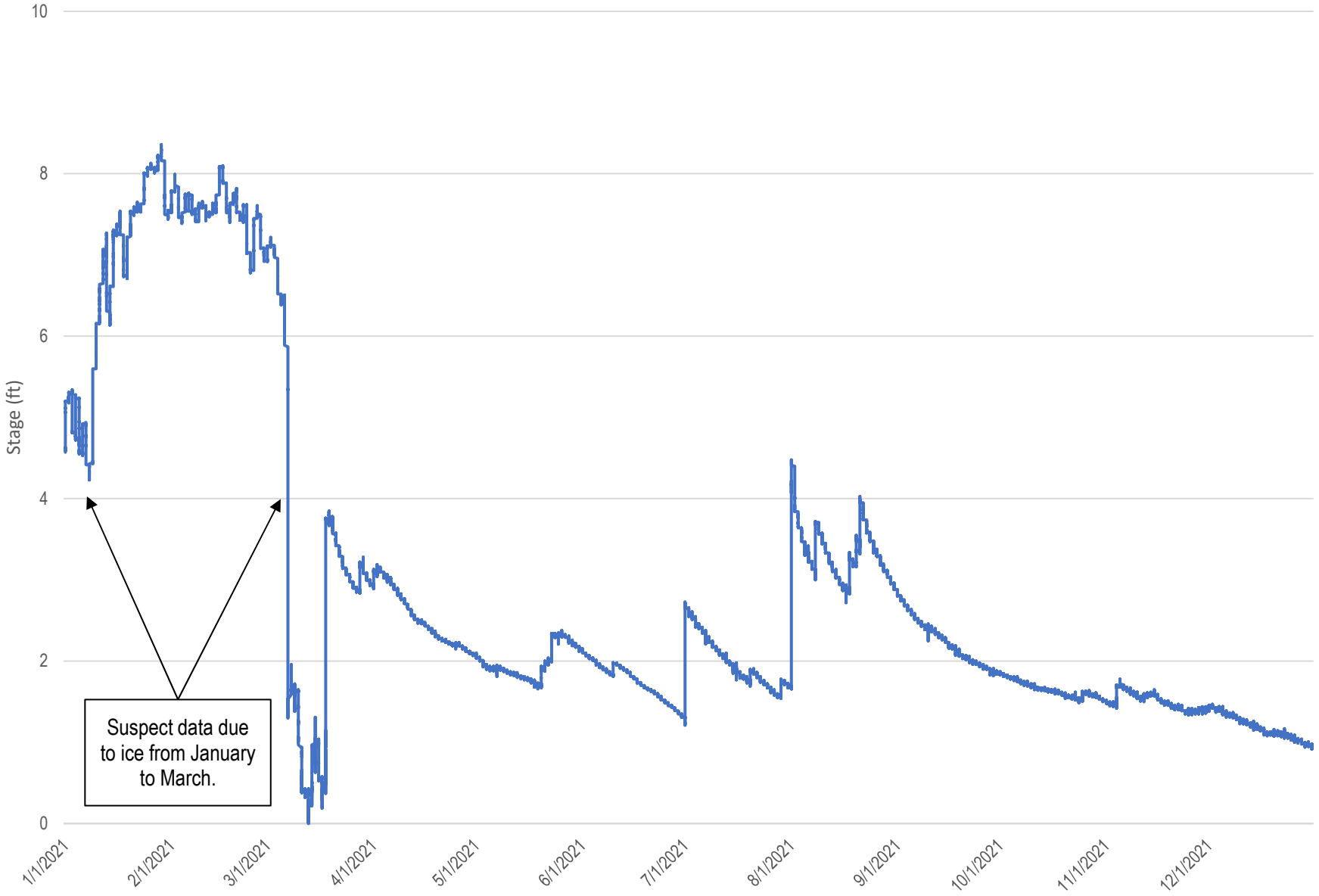


Figure B9. BPSOU 2021 Stage Hydrograph - SS-CB8P

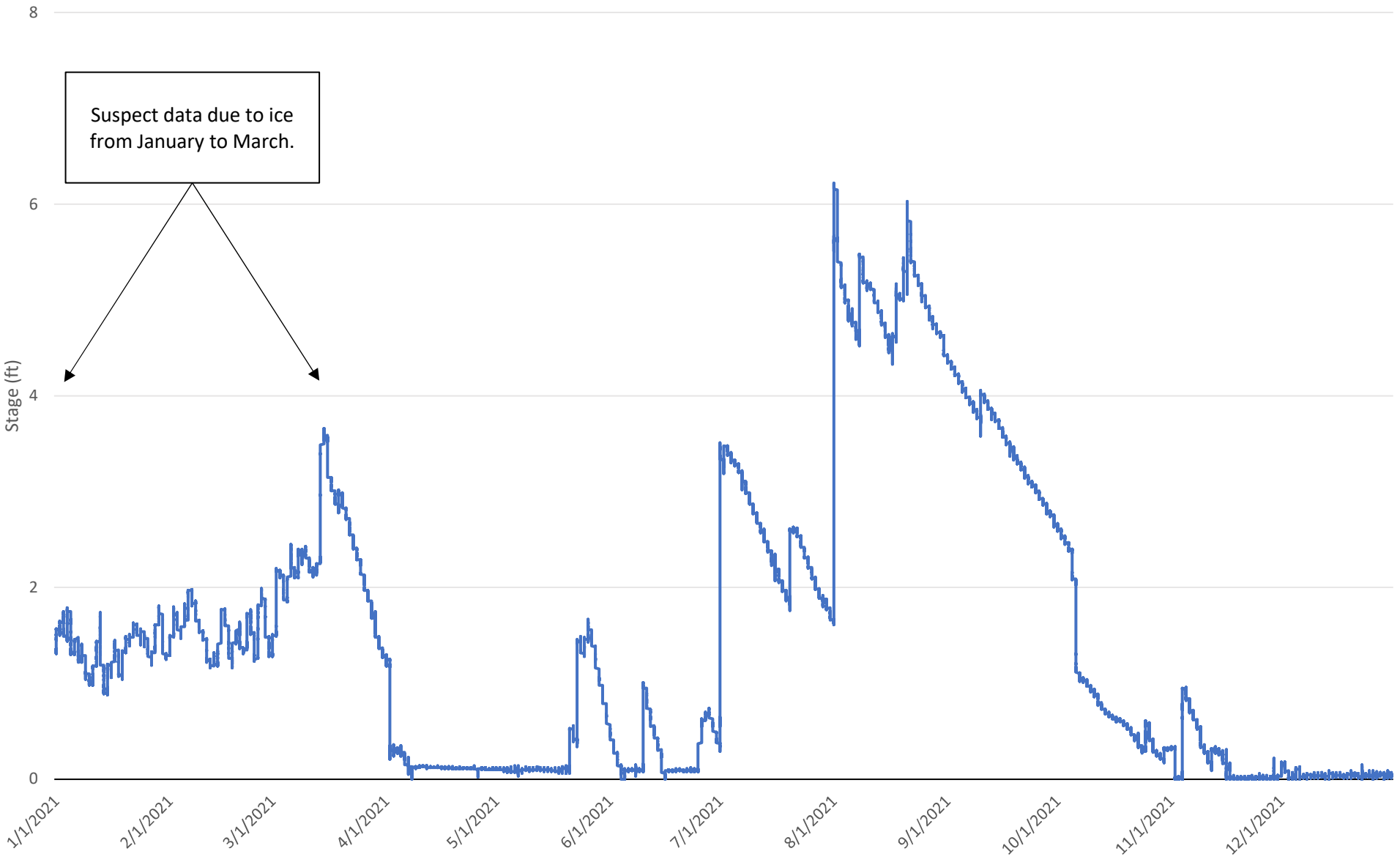


Figure B10. BPSOU 2021 Stage Hydrograph - SS-CB9

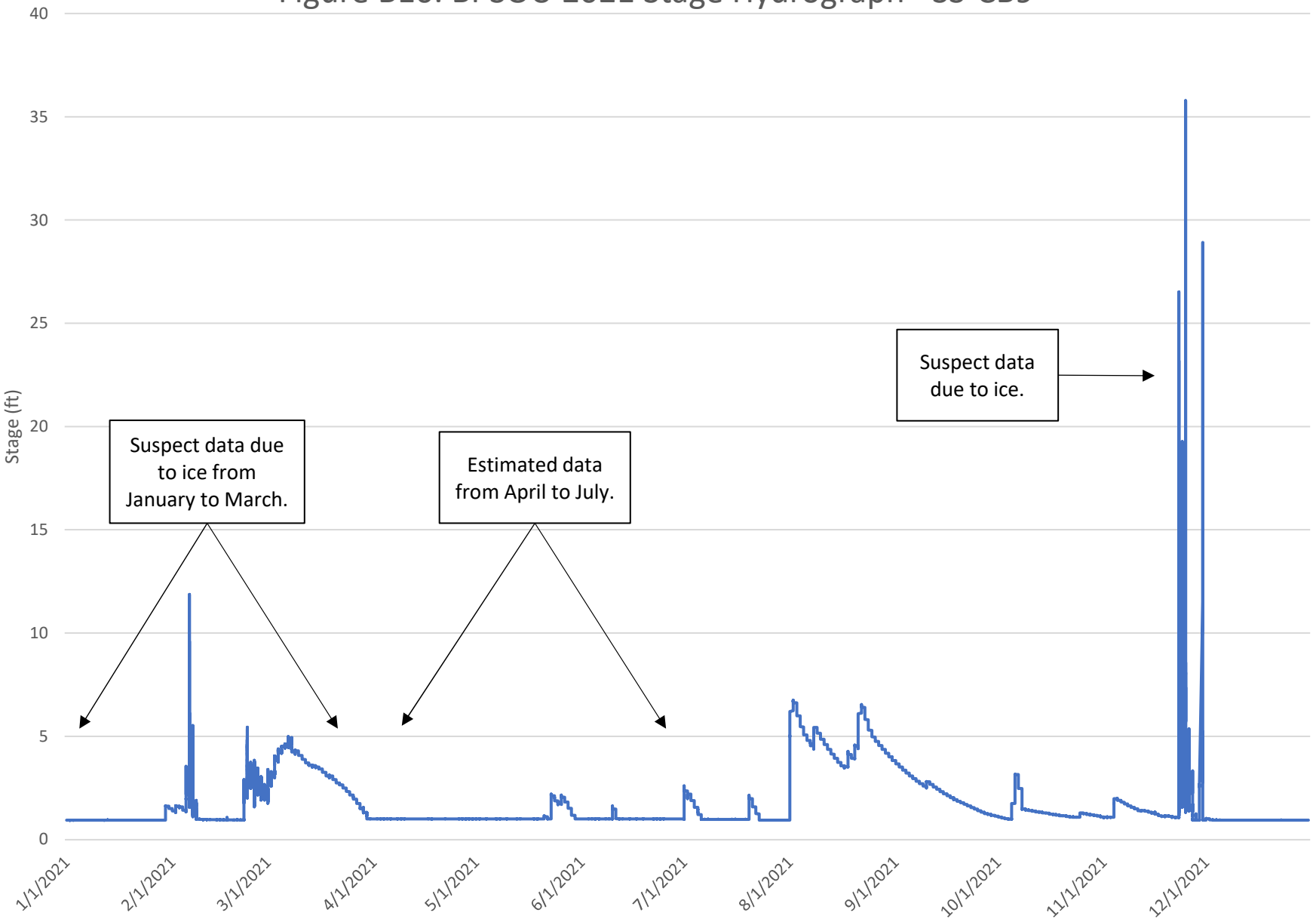


Figure B11. BPSOU 2021 Flow Hydrograph - CT-EFS7

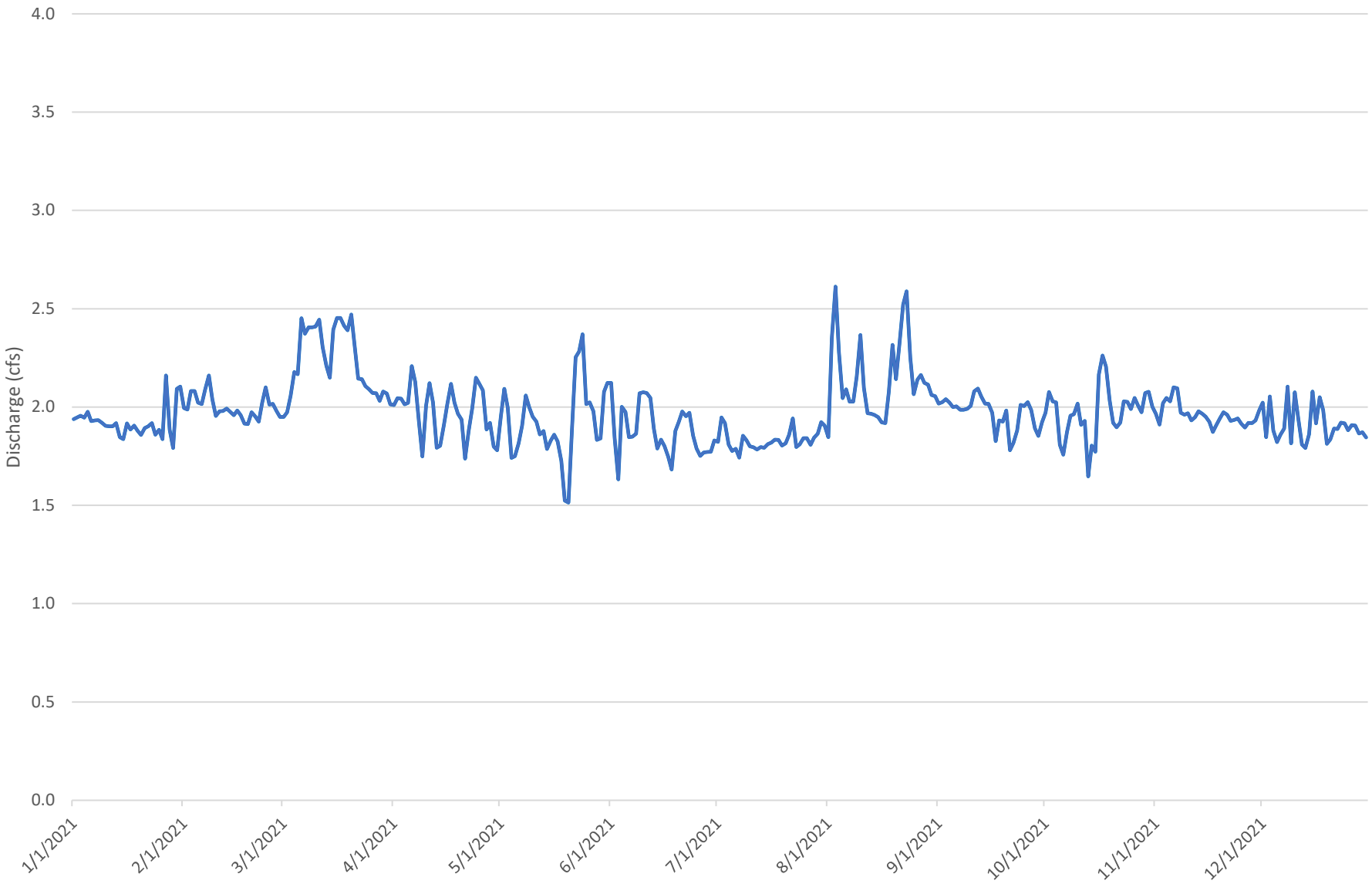


Figure B12. BPSOU 2021 Discharge Hydrograph - SS-STP

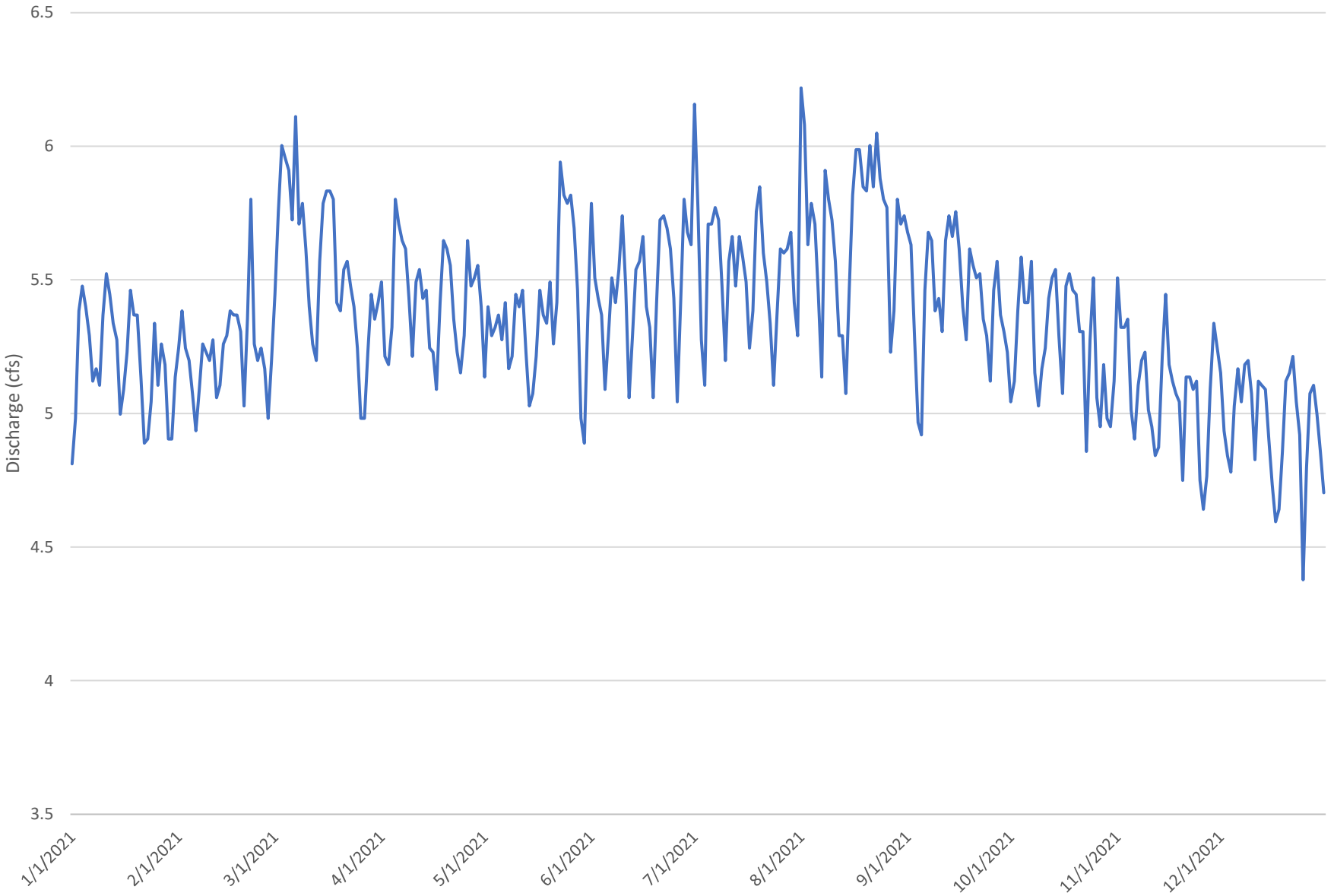


Figure B13. BPSOU 2021
Discharge Hydrograph - SS-MPTP

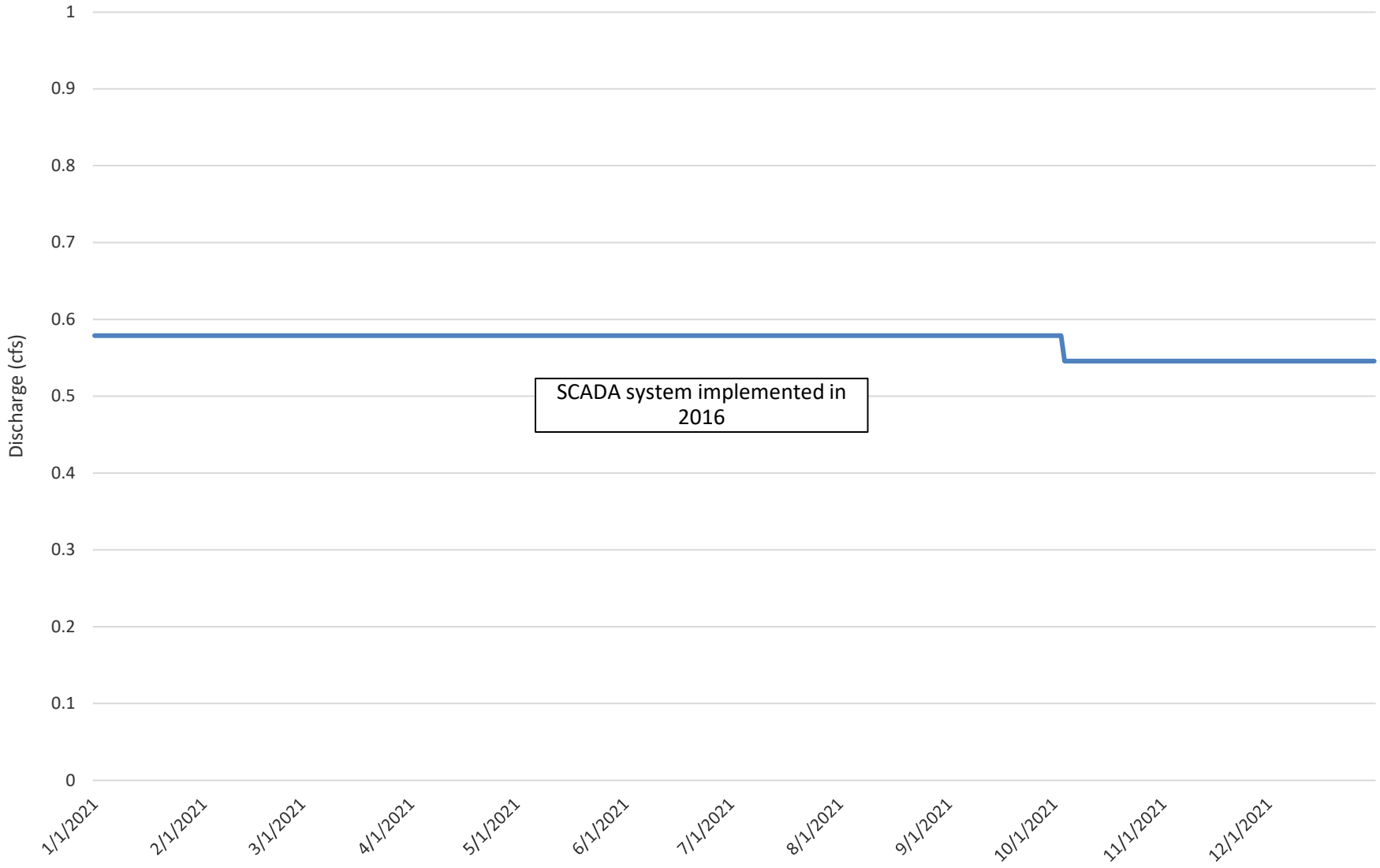


Figure B14. BPSOU 2021 Discharge Hydrograph - SS-01.35
USGS data used

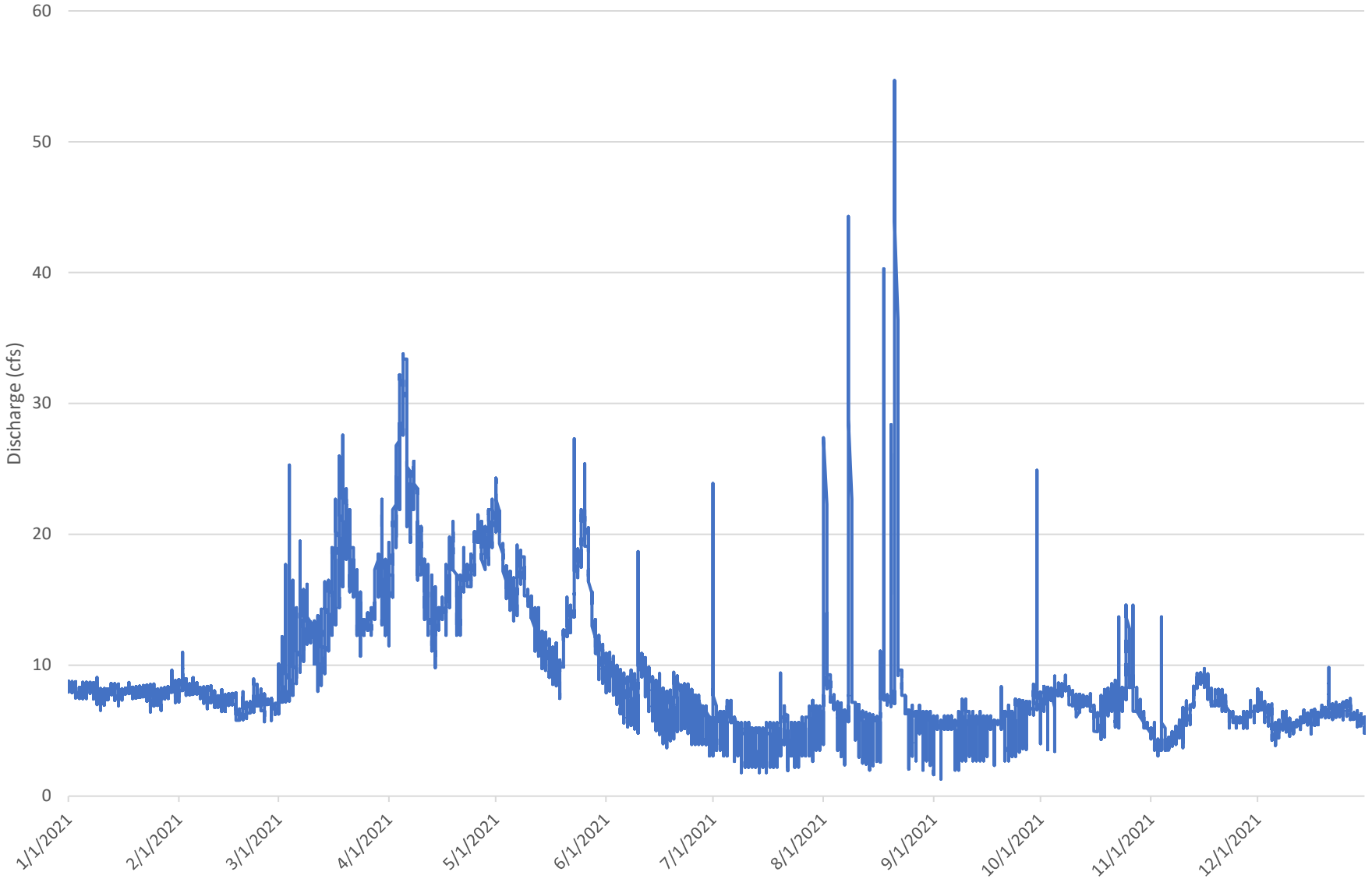


Figure B15. BPSOU 2021 Discharge Hydrograph - SS-07
USGS data used

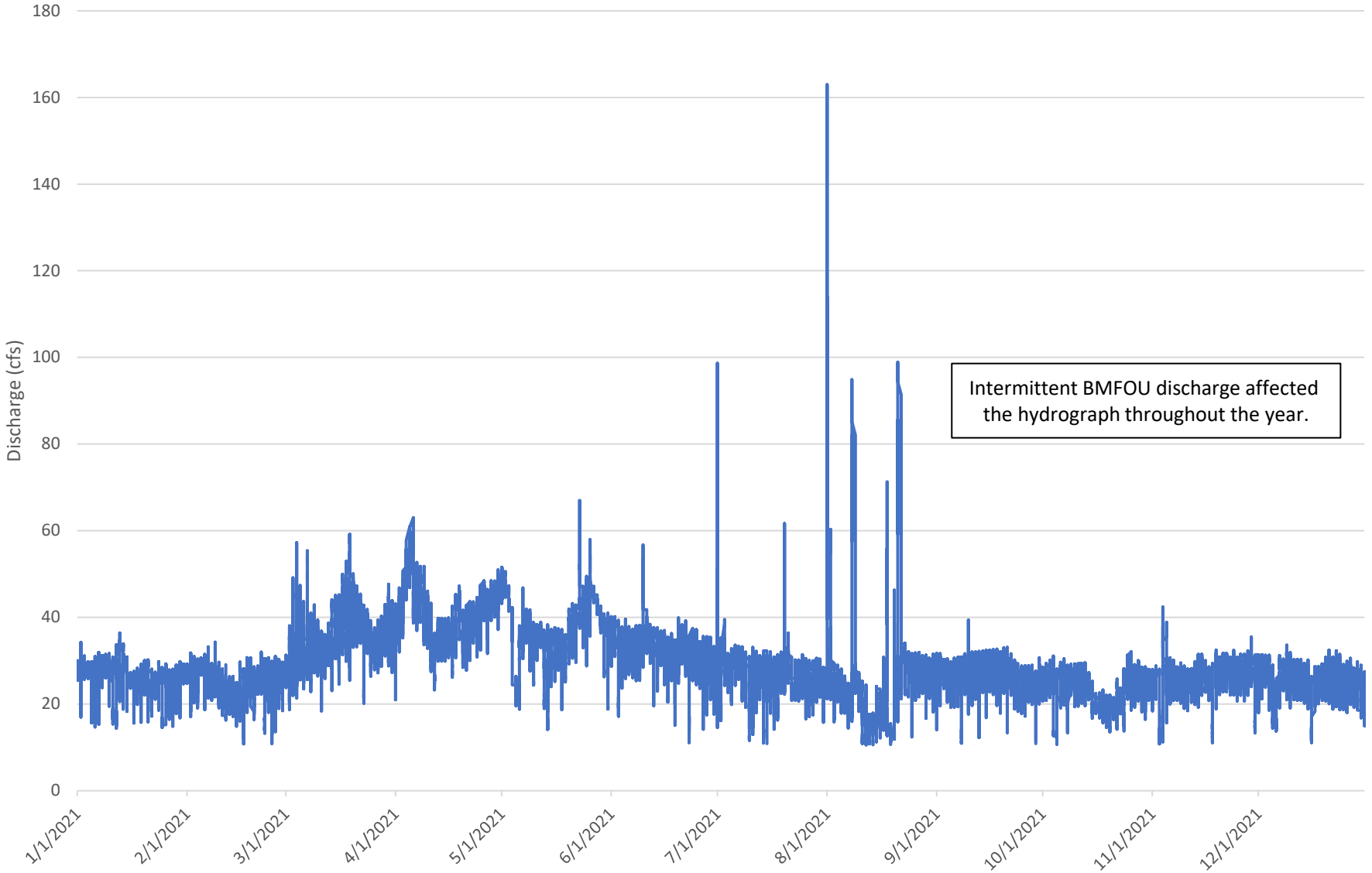


Figure B16. BPSOU 2021 Continuous pH - SS-01

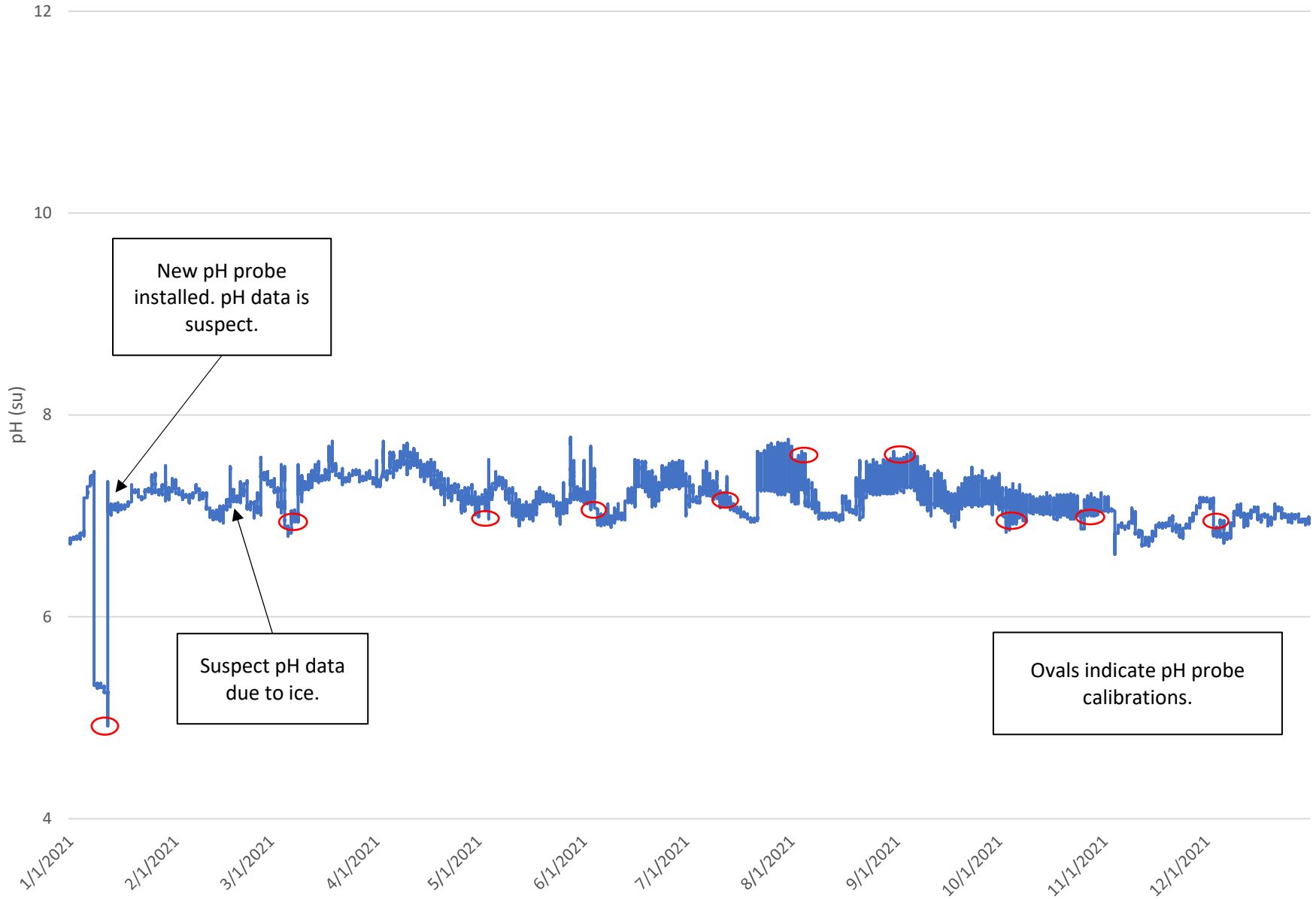


Figure B17. BPSOU 2021 Continuous pH - SS-06G

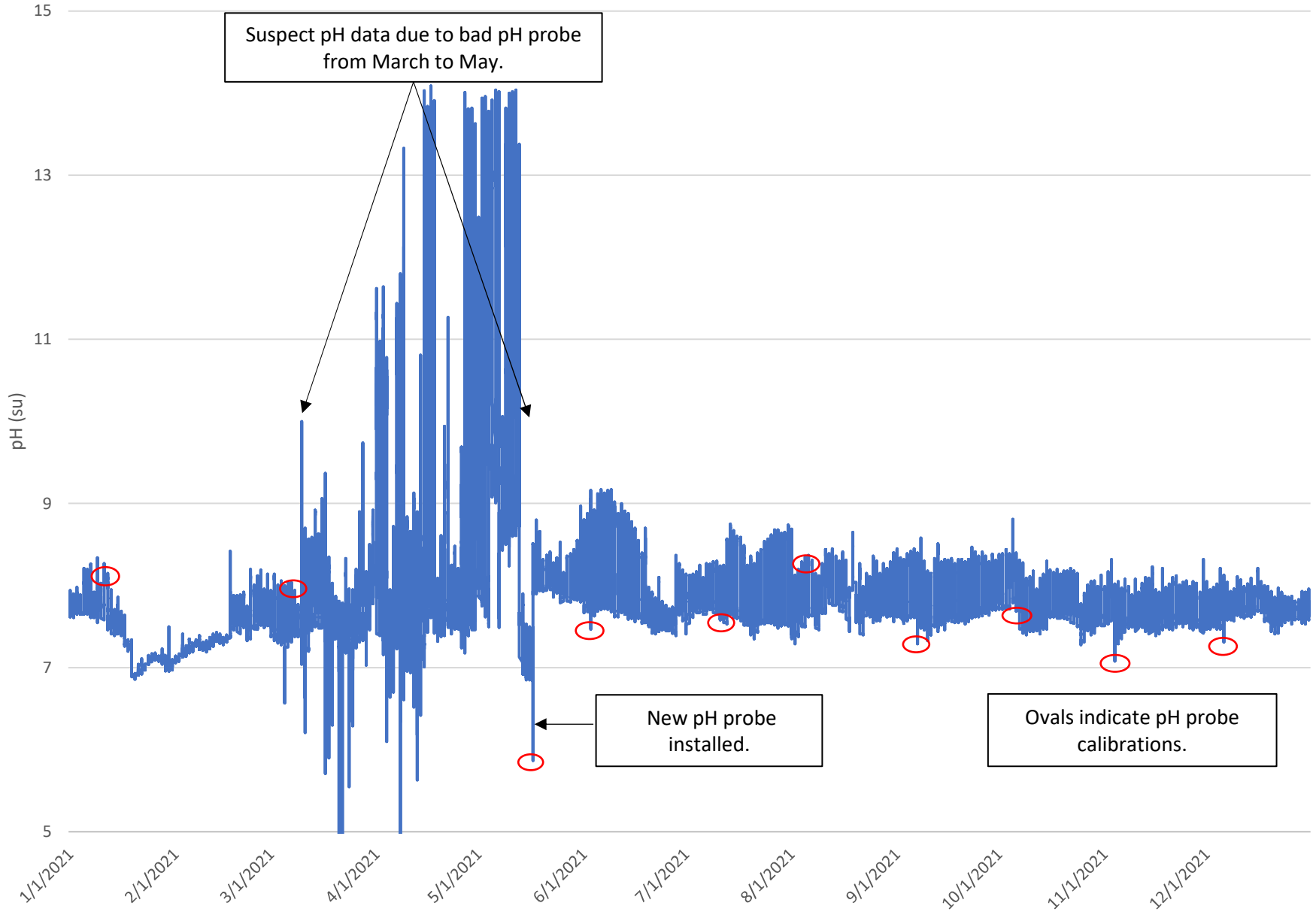
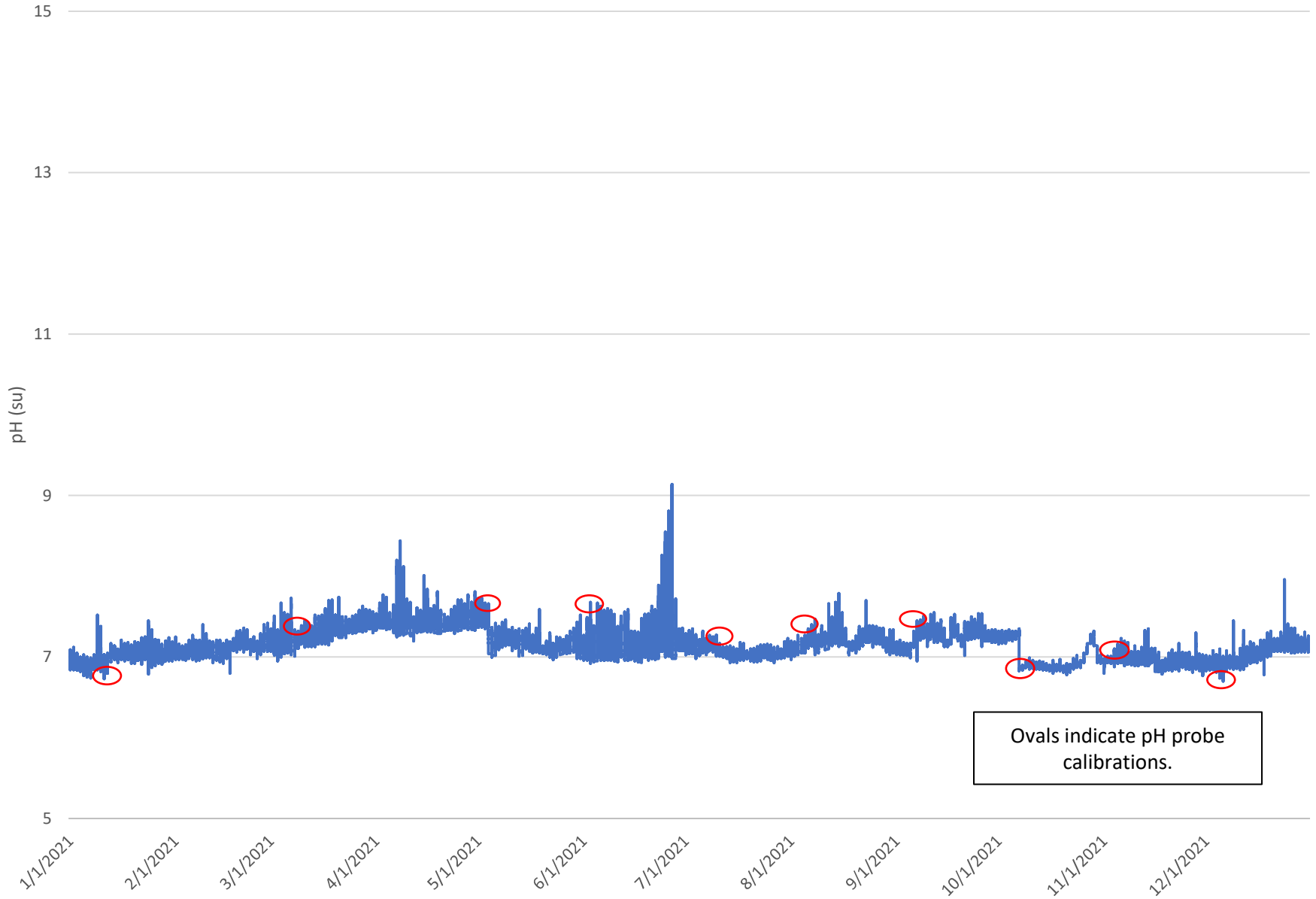


Figure B18. BPSOU 2021 Continuous pH - SS-07



Appendix C
Stage Discharge Curves

Table C1. BPSOU Surface Water Monitoring Station Rating Table - SS-01
Table C2. BPSOU Surface Water Monitoring Station Rating Table - SS-05
Table C3. BPSOU Surface Water Monitoring Station Rating Table - SS-05A
Table C4. BPSOU Surface Water Monitoring Station Rating Table - SS-06A
Table C5. BPSOU Surface Water Monitoring Station Rating Table - SS-06G
Table C6. BPSOU Surface Water Monitoring Station Rating Table - MSD-3A
Table C7. BPSOU Surface Water Monitoring Station Basin Balance

Figure C1. BPSOU Surface Water Monitoring Stage-Discharge Relationship - SS-01
Figure C2. BPSOU Surface Water Monitoring Stage-Discharge Relationship - SS-05
Figure C3. BPSOU Surface Water Monitoring Stage-Discharge Relationship - SS-05A
Figure C4. BPSOU Surface Water Monitoring Stage-Discharge Relationship - SS-06A
Figure C5. BPSOU Surface Water Monitoring Stage-Discharge Relationship - SS-06G
Figure C6. BPSOU Surface Water Monitoring Stage-Discharge Relationship - MSD-3A

Butte Priority Soils Operable Unit (BPSOU)
Silver Bow Creek/Butte Area Site

Appendix C: Stage Discharge Relationships
Draft 2021 Site-Wide Surface Water Normal Flow and Wet Weather Data

Atlantic Richfield

April 2022

TABLE OF CONTENTS

Page

1.0 Introduction.....1

2.0 Methodology.....2

3.0 Results.....4

3.1 Station SS-01.....4
3.2 Station SS-0.16.....4
3.3 Station SS-05.....5
3.4 Station SS-05A.....6
3.5 Station SS-06A.....7
3.6 Station SS-06G.....8
3.7 Station MSD-3A.....9

4.0 Basin Balance.....10

5.0 References.....11

LIST OF TABLES

Table C1 BPSOU Surface Water Monitoring Station Rating Table – SS-01
Table C2 BPSOU Surface Water Monitoring Station Rating Table – SS-05
Table C3 BPSOU Surface Water Monitoring Station Rating Table – SS-05A
Table C4 BPSOU Surface Water Monitoring Station Rating Table – SS-06A
Table C5 BPSOU Surface Water Monitoring Station Rating Table – SS-06G
Table C6 BPSOU Surface Water Monitoring Station Rating Table – MSD-3A
Table C7 BPSOU Surface Water Monitoring Station Basin Balance

LIST OF FIGURES

Figure C1 BPSOU Surface Water Monitoring Station Stage-Discharge Relationship – SS-01
Figure C2 BPSOU Surface Water Monitoring Station Stage-Discharge Relationship – SS-05
Figure C3 BPSOU Surface Water Monitoring Station Stage-Discharge Relationship – SS-05A
Figure C4 BPSOU Surface Water Monitoring Station Stage-Discharge Relationship – SS-06A
Figure C5 BPSOU Surface Water Monitoring Station Stage-Discharge Relationship – SS-06G
Figure C6 BPSOU Surface Water Monitoring Station Discharge – MSD-3A

ABBREVIATIONS AND ACRONYMS

BMFOU	Butte Mine Flooding Operable Unit
BPSOU	Butte Priority Soils Operable Unit
BTC	Blacktail Creek
BTL	Butte Treatment Lagoons
HCC	Hydraulic Control Channel
Q	Flow Rate
QAPP	Quality Assurance Project Plan
SBC	Silver Bow Creek
USGS	United States Geological Survey

1.0 INTRODUCTION

Within the Butte Priority Soils Operable Unit (BPSOU) surface water monitoring network, 20 surface water measurement stations or point source discharge locations are equipped with automated stage recording devices. Of these, eight stations have discharge ratings associated with them. Automated recorders at stations SS-01.35 (Site Number 12323233) and SS-07 (Site Number 12323250) are operated and maintained by the United States Geological Survey (USGS) and their discharge ratings are not included in this report. The remaining stations (SS-01, SS-04, SS-05, SS-05A, SS-06A, SS-06G and MSD-3A) are operated by Atlantic Richfield, or a contracted party on its behalf.

With the use of gauging station discharge rating procedures, stage-discharge relationships have been determined for stations SS-01, SS-05, SS-05A, SS-06A, SS-06G, and MSD-3A, which have long histories of stage-discharge measurements on which to base relationships.

2.0 METHODOLOGY

At the continuous monitoring stations, automated data loggers recorded depth of flow or pool elevation data at 15-minute intervals. In addition to continuous monitoring, stream flow (discharge) measurements were taken by Atlantic Richfield at the surface water monitoring stations. Gauging was performed in conjunction with normal flow sampling, at a general frequency of once per month. Manual monitoring for the collection of stage-discharge related information at the remaining locations was performed by the controlling parties according to their own schedules. The manually collected stage and discharge data were used to establish stage-discharge relationships.

The USGS method (Kennedy, 1984) was followed to determine the stage-discharge relationship at each station. Data from a series of stage and discharge measurements were plotted on the previous rating curve. Errors associated with stream gaging were generally in the 10% to 15% range. It was the hydrographer's responsibility to assess the fit of the new field data with the previous rating curve. Generally, when three or more consecutive field measurements were consistently greater or less than the rating curve by more than 15% residual, a new rating curve was developed. When a new rating curve was necessary, new data from a series of stage and discharge measurements were plotted together for each gauging station and a curve was fit to the data.

At SS-01, several residuals were greater than 15%. A fuel spill in January 2021 required absorbent booms to be installed at SS-01 and at several locations upstream of SS-01. Additionally, two beaver dams between SS-01 and SS-01.35 spanned the entire channel. Because the absorbent booms and beaver dams are thought to have temporarily changed conditions at SS-01, a new rating curve was not developed for the station. If the residuals continue to be greater than 15% in 2022, indicating conditions have more permanently changed, the need for development of a new rating curve will be reassessed quarterly in 2022.

Additionally, one high flow point was created at all stations using USGS flow information to calibrate the upper end of the rating curve. A corresponding stage measurement was determined for this flow value using the time stamp from the USGS flow data point and the 15-minute continuous stage data. This point supplements the field measurements that, for safety reasons, can only be taken during normal flow, defined as base flow or elevated base flow conditions. Field measurements taken during normal flow leave the upper end of the rating curve undefined. This artificial point calibrates the rating curve at the upper end.

The USGS method also describes the possibility of multiple ratings curves at a single gauging station, depending on the volume of flow. For example, once the stream reaches a certain point, the stream control may change due to the geometry of the channel. For this reason, "low-flow" ratings curves were developed, as needed, to present realistic flow values where the rating curve for normal flow appeared unrealistic (e.g., negative). When necessary, the low flow rating curve was developed using the average point of zero flow (stage of stream thalweg) calculated from the relevant data set. For example, the normal flow rating curve at SS-06G was developed from July 2011 through April 2012 data. The average point of zero flow was calculated from monitoring events in the same date range. The low flow curve is a linear relationship between the average point of zero flow and the low end of the existing rating curve.

The resultant rating curve equations relate stage (depth of flow) to discharge. The relationships were then applied to continuous stage data to generate continuous flow records. For each manual data collection event, discharge calculated from the curve equations were compared with field measured flows. When the difference between discharge field measurement and rating curve values was greater than 5%, stage shift adjustments were made to compensate for the rating and measured flow differences. Finally, shift values were linearly interpolated and applied to the continuous 15-minute stage data between manual field measurement events.

Temporary differences between measured and calculated flows may occur because of channel boundary changes from aqueous growth, sediment deposition, etc. Interference with bubbler lines or other recording equipment may also cause erroneous results. Obvious shifts, including three or more sampling events, result in the application of a new curve and stage-discharge relationship. However, according to the USGS method, shifts are not used to account for backwater, ice, debris, scour or other events which grossly affect stream control.

The rating curve at each station is presented in equation and graphical format. The graphical representation shows field measurements, grouped by the calendar year (January through December).

3.0 RESULTS

3.1 Station SS-01

Station SS-01 is the Blacktail Creek (BTC) USGS Station at Harrison Avenue, upstream of the BPSOU. Non-USGS continuous recording began September 2005.

Power failures at the SS-01 continuous data recorder resulted in a data loss from 07:00 to 16:15 on April 22 and from 07:30 on November 3 to 08:15 on November 4. Suspect data due to ice occurred from 01:45 on February 12 to 16:45 on February 15.

During the 2021 monitoring season, 12 normal flow field measurements were made at station SS-01. A new rating curve was developed in 2017 and the data spans from January 1, 2017, through December 31, 2017, data. The rating curve is defined by $Q = 3.2986*Stage^2 + 16.342*Stage – 18.152$. Several residuals were greater than 15%. A fuel spill in January 2021 required absorbent booms to be installed at SS-01 and at several locations upstream of SS-01. Additionally, two beaver dams between SS-01 and SS-01.35 spanned the entire channel. Because the absorbent booms and beaver dams are thought to have temporarily changed conditions at SS-01, a new rating curve was not developed for the station. If the residuals continue to be greater than 15% in 2022, indicating conditions have more permanently changed, the need for development of a new rating curve will be reassessed quarterly in 2022. The rating curve is illustrated in Figure C1.

Stage-discharge relationships for previous ratings curves are provided in the table below, with the period of record they were applied to. Discharge is represented by Q and stage by x in the equations.

Period of Record	Rating Curve Equation
January 1, 2017 – December 31, 2021	$Q = 3.2986*x^2 + 16.342*x – 18.152$
May 1, 2012 – December 31, 2016	$Q = 3.5289*x^2 + 14.046*x – 11.93$
August 2008 – April 2012	$Q = 3.5289*x^2 + 14.046*x – 11.93$
2005 – July 2008	$Q = 0.172*x^2 + 29.332*x – 20.722$

These equations were applied to continuous stage records to generate continuous discharge records. Residuals were calculated based on the relationship between actual and calculated flow. Stage shifts were calculated and applied for residuals greater than 5%. Stage shifts were linearly applied to the 15-minute stage record between field measurement events.

Table C1 presents rating data for 2021 and includes a comparison of manually collected discharge values, rating curve discharge values, resultant residuals, and stage shifts. Flow at SS-01 was checked by comparing the 15-minute continuous flow record to the flow record at SS-01.35, which is produced by the USGS.

3.2 Station SS-01.6

Station SS-01.6 was removed in June 2020 in accordance with the 2020 BPSOU Surface Monitoring QAPP. Station SS-01.6 was replaced with SS-01.35, which is maintained by the USGS.

3.3 Station SS-05

Station SS-05 is located below the Montana Street discharge point to Silver Bow Creek (SBC) and is the first SBC station below the confluence of SBC and BTC. The station is in a channelized section of creek with a bed of large cobbles. Stage and flow have been measured at this station from April 1998 to the present. Rating curves have been developed based on these field measured data throughout this period. The data indicate a stable relationship at this station.

Fluctuating stage measurements throughout the year were observed due to intermittent changes in the flow volume from the BMFOU-Pilot Project discharge. During the 2021 monitoring period, 12 normal flow events were monitored at SS-05. The current rating curve was developed from November 2010 to December 2011 data and calibrated to a USGS high point on June 18, 2011. This rating curve is defined by the equation, $Q = 13.180*stage^2 + 20.865*stage – 5.8796$. A new rating curve was not necessary at this station as the 2021 data aligned well with the rating curve. The rating curve is illustrated in Figure C2.

Stage-discharge relationships for previous ratings curves are provided in the table below, with the period of record they were applied to. Discharge is represented by Q and stage by x in the equations.

Period of Record	Rating Curve Equation
November 3, 2010-December 31, 2021	$Q = 13.180x^2 + 20.865x – 5.8796$
January 1, 2010-November 3, 2010	$Q = 5.5605x^2 + 37.791x – 11.638$ Low-Flow $Q = 12.967x + 1.556$
January 25, 2006-December 12, 2008	$Q = 9.9813x^2 + 27.364x – 5.5108$
September 13, 2006-December 7, 2007	$Q = 21.79x^2 + 16.358x – 3.0713$
April 26, 2005 – September 12, 2006	$Q = 40.509x^2 – 12.132x + 5.5807$
October 21, 2004 – April 25, 2006	$Q = 18.441x^2 + 13.859x - 3.1837$
September 16, 2003 – October 20, 2004	$Q = 18.445x^2 + 13.885x - 3.2515$
June 29, 2000 – September 16, 2003	$Q = 18.167x^2 + 14.627x – 4.1783$
April 28, 1998 through June 28, 2000	$Q=4.9963e^{1.6211x}$

These equations were applied to continuous stage records to generate continuous discharge records. Residuals were calculated based on the relationship between actual and calculated flow. Stage shifts were calculated for residuals greater than 5%. Stage shifts were linearly applied to the 15-minute stage record between field measurement events.

Table C2 presents rating data for 2021 and includes a comparison of manually collected discharge values, rating curve discharge values, resultant residuals, and stage shifts.

Flow at SS-05 was checked by comparing the 15-minute continuous flow record to the flow record at SS-01.35, which is produced by the USGS.

3.4 Station SS-05A

Station SS-05A is located downstream of station SS-05 and the slag canyon. The station was previously positioned below several large culverts that conveyed SBC beneath an access road. These culverts were removed in March 2012.

A power failure at the SS-05A continuous data recorder resulted in a data loss from 13:45 on December 6 to 13:15 on December 23.

Fluctuating stage measurements throughout the year were observed due to intermittent changes in the flow volume from the BMFOU Pilot Project-discharge. During the 2021 monitoring period, 12 normal flow events were monitored at SS-05A. The current rating curve was developed using 2014 base flow events and high flow points from previous years (2010 and 2011). The rating curve is defined by $Q = 11.277*Stage^2 + 16.361*Stage – 0.7441$. A new rating curve was not necessary at this station as the 2021 data aligned well with the rating curve. The rating curve is illustrated in Figure C3.

Stage-discharge relationships for previous ratings curves are provided in the table below, with the period of record they were applied to. Discharge is represented by Q and stage by x in the equations.

Period of Record	Rating Curve Equation
January 1, 2014 – December 31, 2021	$Q = 11.277*x^2 + 16.361x – 0.7441$
January 1, 2013 – December 31, 2013	No rating curve due to beaver activity
August 1, 2012 – December 31, 2012	No rating curve due to backwater effect
September 10, 2011 – July 31, 2012	$Q = 15.074*x^2 – 4.5606x + 1.4854$
July 16, 2010 – September 9, 2011	$Q = 14.558*x^2 + 3.8758x + 6.8739$
January 2, 2010 – July 16, 2010	$Q = 14.025* x^2 + 5.4437 + 3.3394$
January 1, 2007 – December 31, 2007	$Q = 5.3496* x^2 + 30.219*x - 6.6665$
July 8, 2004 – January 24, 2005	$Q = 26.366x^2 - 30.496x + 16.387$
March 24, 2004 – July 7, 2004	$Q = 21.87x^2 - 8.6322x + 8.1817$
December 11, 2002 – March 23, 2004	$Q = -3.8631x^2 + 41.884x – 11.257$
February 20, 2002 – December 10, 2002	$Q = 98.78x^2 – 149.27 + 63.52$
June 23, 2001 – February 19, 2002	$Q = 102.91x^2-156.21x + 67.142$

May 16, 2000 – June 22, 2001	$Q = 90.068x^2 - 78.38x + 22.365$
June 9, 1999 – May 15, 2000	$Q = 149x^2 - 267.09x + 130.98$
May 29, 1998 – June 8, 1999	$Q = 49.21x^2 - 53.491x + 20.906$

These equations were applied to continuous stage records to generate continuous discharge records. Residuals were calculated based on the relationship between actual and calculated flow and stage shifts calculated for residuals greater than 5%. Stage shifts were linearly applied to the 15-minute stage record between field measurement events.

Table C3 presents rating data for 2021 and includes a comparison of manually collected discharge values, rating curve discharge values, resultant residuals, and stage shifts.

Flow at SS-05A was checked by comparing the 15-minute continuous flow record to the flow record at SS-07, which is produced by the USGS.

3.5 Station SS-06A

Station SS-06A is located 200 feet above the Montana Pole Treatment Plant outfall on SBC, and downstream of the Missoula Gulch channel. Continuous data collection began March 30, 2009.

An equipment failure at the SS-06A continuous data recorder resulted in a data loss from 08:00 to 10:00 on December 12. Fluctuating stage measurements throughout the year were observed due to intermittent changes in the flow volume from the BMFOU Pilot Project–discharge. During the 2021 monitoring season, 12 normal flow field measurements were made. The 2021 data was compared against the current rating curve which was developed using normal flow events from 2014. The rating curve is defined by $Q = 4.2059*Stage^2 + 38.195*Stage + 1.094$. No high flow measurements were used to anchor this curve. A new rating curve was not necessary at this station as the 2021 data aligned well with the rating curve. The rating curve is presented in Figure C4.

Stage-discharge relationships for previous ratings curves are provided in the table below, with the period of record they were applied to. Discharge is represented by Q and stage by x in the equations.

Period of Record	Rating Curve Equation
January 1, 2014 – December 31, 2021	$Q = 4.2059x^2 + 38.195x + 1.094$
January 1, 2013 - December 31, 2013	No rating curve due to beaver activity
July 17, 2012 – December 31, 2012	No rating curve due to backwater effects
May 10, 2012 – July 16, 2012	$Q = 20.217x^2 – 5.376x – 12.699$
September 1, 2011 – May 9, 2012	$Q = 34.101x^2 – 28.278x + 16.861$
January 1, 2011 – August 31, 2011	$Q = 4.7518x^2 + 48.806x – 8.1935$ Low-Flow: $Q = 22.5x + 5.65$
January 1, 2010 – December 31, 2010	$Q = 9.3056x^2 + 33.613x - .9443$

December 11, 2008 – December 16, 2009	$Q = 14.218x^2 + 24.776x + 2.0848$

These equations were applied to continuous stage records to generate continuous discharge records. Residuals were calculated based on the relationship between actual and calculated flow and stage shifts calculated for residuals greater than 5%. Stage shifts were linearly applied to the 15-minute stage record between field measurement events.

Table C4 presents rating data for 2021 and includes a comparison of manually collected discharge values, rating curve discharge values, resultant residuals, and stage shifts.

Flow at SS-06A was checked by comparing the 15-minute continuous flow record to the flow record at SS-07, which is produced by the USGS.

3.6 Station SS-06G

Station SS-06G is located downstream of the Butte Treatment Lagoons (BTL) outlet and upstream of the Hydraulic Control Channel (HCC) outlet and SS-STP outfall. Non-USGS continuous recording began March 16, 2009.

In-depth maintenance on the continuous stage data recorder at SS-06G resulted in a data loss from 10:30 to 12:15 on November 19.

Fluctuating stage measurements throughout the year were observed due to intermittent changes in the flow volume from the BMFOU Pilot Project-discharge. During the 2021 monitoring season, 12 normal flow field measurements were made at station SS-06G. The current rating curve was developed from July 2011 through April 2012 data. The rating curve is defined by $Q = 8.6347*Stage^2 + 63.42*Stage – 10.792$. A new rating curve was not necessary at this station as the 2021 data aligned well with the rating curve. The rating curve is illustrated in C5.

Stage-discharge relationships for previous ratings curves are provided in the table below, with the period of record they were applied to. Discharge is represented by Q and stage by x in the equations.

Period of Record	Rating Curve Equation
May 1 1, 2013 – December 31, 2021	$Q = 8.6347*x^2 + 63.42*x – 10.792$
July 12, 2011 – April 30, 2012	$Q = 8.6347*x^2 + 63.42*x – 10.792$ Low-flow: $Q = 8.663*x + 6.411$ ($x < 0.3$)
September 9, 2010 – July 12, 2011	$Q = 41.182*x^2 + 27.964*x – 7.436$ Low-flow: $Q = 7.9739*x + 8.7712$
January 1, 2010 – September 9, 2010	$Q = 26*x^2 – 11.375*x + 11.331$ Low-flow: $Q = 14.631*x + 4.8281$

These equations were applied to continuous stage records to generate continuous discharge records. Residuals were calculated based on the relationship between actual and calculated flow

and stage shifts calculated for residuals greater than 5%. Stage shifts were linearly applied to the 15-minute stage record between field measurement events.

Table C5 presents rating data for 2021 and includes a comparison of manually collected discharge values, rating curve discharge values, resultant residuals, and stage shifts.

Flow at SS-06G was checked by comparing the 15-minute continuous flow record to the flow record at SS-07, which is produced by the USGS.

3.7 Station MSD-3A

Station MSD-3A is located on SBC above its confluence with BTC, directly east of Kaw Avenue. This station replaced SS-03, which was located approximately 1000 feet to the west prior to the installation of the BPSOU sub-drain and pumping station. The sampling location was reestablished at MSD-3 in 2005 following initiation of BPSOU sub-drain pumping but was moved in 2006. Curve development for MSD-3A began in 2006, soon after a continual recorder was installed at the site. Flow is only recorded at MSD-3A during wet weather events; therefore, unlike other gauging stations, normal flow data is unavailable.

Ideally, stage-discharge measurements used to generate a rating curve are taken consistently throughout the year (e.g., monthly). There were no opportunities to measure flow at MSD-3A during the 2021 monitoring season. The previous rating curve was applied to 2021 data; however, the resulting graph may not be accurate. The curve is presented in Figure C6, and the rating curve table is presented in Table C6.

During installation of ISCO automated samplers at the beginning of the wet weather season, two area-velocity flow meters that collect stage and velocity data used to calculate discharge are installed in the culverts directly downstream of station MSD-3A.

4.0 BASIN BALANCE

A basin flow balance was calculated on monthly manually gauged flow values to confirm that discharge records were consistent within the basin and/or to identify inconsistencies or station flow bias. Two flow balances were calculated as:

$$\text{SS-07} = \text{BMFOU} + \text{SS-STP} + \text{CT-EFS7} + \text{SS-MPTP} + \text{SS-04}; \text{ and} \quad (1)$$

$$\text{SS-07} = \text{SS-STP} + \text{CT-EFS7} + \text{SS-MPTP} + \text{SS-05}; \quad (2)$$

To evaluate the flow balances, residuals were calculated as the percent difference between SS-07 and the sum of the remaining equation components. Equation 1 produced residuals that ranged from –9% to 27%. Equation 2 produced residuals that range from -1% to 37%. The equation calculations and resultant residuals are presented in Table C7.

Monthly flow balance residuals were within the range of plus or minus ten percent 54.17% of the time. It should be noted that potential exists for HCC waters to overflow the sheet piling or to discharge from CB9 during storm events and thus factor into the accuracy of the balance equations during storm flow. However, events of this nature occur rarely and generally supply limited discharge, so the potential is slight, and the impact considered negligible. Additionally, during storm events SBC gains flow from SBC upstream of its confluence with BTC, Buffalo Gulch and the Montana Street drainage, possibly affecting the balance equations.

Since October 2019, USGS flow records are no longer being corrected from provisional to non-provisional by the USGS, therefore these data, and the residuals calculated using them, are considered final.

5.0 REFERENCES

Kennedy, E.J., 1984, Discharge ratings at gaging stations: U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chap. A10, 59 p.

Tables

Table C1. Surface Water Station SS-01 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
9/20/05 12:00	FG	0.84	4.2	4.0	-3.85%	0	0.84	4.0	-3.85%	
12/13/05 13:00	FG	0.82	4.06	3.4	-15.13%	0.015	0.835	3.9	-4.18%	
2/2/06 14:06	FG	1.36	22.72	19.5	-14.23%	0.071	1.431	21.6	-4.91%	
3/2/06 14:07	FG	1.36	22.79	19.5	-14.49%	0.12	1.48	23.1	1.21%	
4/21/06 11:10	FG	1.55	25.1	25.2	0.22%	0	1.55	25.2	0.22%	
6/1/06 15:42	FG	1.18	14.3	14.1	-1.19%	0	1.18	14.1	-1.19%	
9/12/06 17:25	FG	0.80	3.1	2.9	-7.95%	0.007	0.807	3.1	-1.26%	
12/7/06 16:40	FG	0.90	6.2	5.8	-6.19%	0.003	0.903	5.9	-4.76%	
2/23/07 16:15	FG	0.89	5.2	5.5	6.15%	-0.007	0.883	5.3	2.16%	
4/13/07 15:45	FG	1.00	8.4	8.8	4.55%	0	1	8.8	4.55%	
4/27/07 16:45	FG	1.13	13.6	12.6	-7.04%	0.03	1.16	13.5	-0.48%	
5/9/07 16:26	FG	1.11	11.8	12.0	2.11%	0	1.11	12.0	2.11%	
5/22/07 10:03	FG	1.42	21.9	21.3	-2.85%	0	1.42	21.3	-2.85%	
5/31/07 16:55	FG	1.44	22.2	21.9	-1.47%	0	1.44	21.9	-1.47%	
6/14/07 16:28	FG	1.63	30	27.5	-8.18%	0.05	1.68	29.0	-3.20%	
6/20/07 15:25	FG	1.31	18.3	18.0	-1.65%	0	1.31	18.0	-1.65%	
7/2/07 14:55	FG	0.98	8	8.2	2.36%	0	0.98	8.2	2.36%	
8/21/07 15:55	FG	0.88	5.3	5.2	-1.45%	0	0.88	5.2	-1.45%	
9/27/07 10:02	FG	0.99	7.8	8.5	8.79%	-0.01	0.98	8.2	4.98%	
10/24/07 16:35	FG	1.01	7.9	9.1	14.92%	-0.04	0.97	7.9	-0.10%	
12/7/07 16:15	FG	0.94	6.5	7.0	7.72%	-0.015	0.925	6.6	0.88%	
1/10/08 16:00	FG	0.86	4.7	4.6	-1.47%	0	0.86	4.6	-1.47%	
2/29/08 14:35	FG	0.95	7.2	7.3	1.37%	0	0.95	7.3	1.37%	
3/28/08 10:20	FG	0.92	6.2	6.4	3.37%	0	0.92	6.4	3.37%	
4/11/08 17:15	FG	0.94	7.2	7.0	-2.75%	0	0.94	7.0	-2.75%	
4/15/08 16:50	FG	1.97	37.6	37.7	0.34%	0	1.97	37.7	0.34%	
4/30/08 9:45	FG	1.63	26.7	27.5	3.17%	0	1.63	27.5	3.17%	
4/30/08 15:49	FG	1.76	29.5	31.4	6.56%	0	1.76	31.4	6.56%	
5/2/08 18:15	FG	1.26	16	16.5	3.18%	0	1.26	16.5	3.18%	
6/3/08 15:46	FG	2.26	47	46.4	-1.18%	0	2.26	46.4	-1.18%	
6/19/08 17:20	FG	2.09	41.2	41.3	0.32%	0	2.09	41.3	0.32%	
7/1/08 13:50	FG	1.52	20.9	24.3	16.08%	-0.08	1.44	21.9	4.65%	
7/9/08 15:10	FG	1.30	14.8	17.7	19.60%	-0.075	1.225	15.5	4.51%	

Table C1. Surface Water Station SS-01 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
New Curve										
8/8/08 12:07	FG	1.13	6.5	8.4	29.97%	-0.08	1.05	6.7	3.21%	Possible outlier
9/26/08 15:55	FG	1.94	6.7	28.6						Outlier-Assuming Culvert Back-up
10/15/08 15:02	FG	2.09	12.3	32.8						Outlier-Assuming Culvert Back-up
11/6/08 14:38	FG	1.10	10.3	7.8	-24.36%	0.09	1.19	9.8	-5.03%	Possible outlier
12/11/08 14:25	FG	1.38	7.7	14.2	84.08%	-0.27	1.11	8.0	4.01%	Possible outlier
1/22/09 15:15	FG	0.93	5.5	4.2	-23.91%	0.06	0.99	5.4	-1.20%	
2/18/09 9:55	FG	1.06	5.5	6.9	25.89%	-0.055	1.005	5.8	4.55%	
3/23/09 15:39	FG	1.45	21	15.9	-24.49%	0.17	1.62	20.1	-4.35%	
4/21/09 13:30	FG	1.78	27.6	24.3	-12.13%	0.075	1.855	26.3	-4.82%	
5/21/09 15:30	FG	1.86	26.9	26.4	-1.84%	0	1.86	26.4	-1.84%	
6/5/09 9:44	FG	1.50	18.8	17.1	-9.15%	0.035	1.535	17.9	-4.55%	
6/29/09 15:50	FG	1.19	12.8	9.8	-23.58%	0.15	1.34	13.2	3.34%	
7/21/09 15:23	FG	1.24	8.2	10.9	33.09%	-0.12	1.12	8.2	0.34%	
8/27/09 14:25	FG	2.35	7.1	40.6						Outlier-Assuming Culvert Back-up
9/23/09 14:45	FG	0.92	6.1	4.0	-34.77%	0.09	1.01	5.9	-4.00%	
10/22/09 15:26	FG	1.93	16.2	28.3						Outlier-Assuming Culvert Back-up
11/18/09 14:56	FG	1.09	11.17	7.6	-32.20%	0.16	1.25	11.1	-0.26%	
12/16/09 15:45	FG	0.94	5.9	4.4	-25.57%	0.06	1	5.6	-4.32%	
4/22/10 13:59	FG	1.89	30.7	27.2	-11.33%	0.07	1.96	29.2	-5.03%	
2/3/11 16:10	FG	1.28	7.9	11.8	49.75%	-0.17	1.11	8.0	1.38%	
2/22/11 17:33	FG	1.54	11.8	18.1	53.14%	-0.23	1.31	12.5	6.15%	
4/6/11 14:45	FG	1.80	22	24.8	12.67%	-0.07	1.73	22.9	4.23%	
5/19/11 13:49	FG	2.70	51.6	51.7	0.23%	0	2.7	51.7	0.23%	
6/9/11 11:28	FG	4.69	131	131.6	0.43%	0	4.69	131.6	0.43%	
6/28/11 15:12	FG	2.50	48.9	45.2	-7.48%	0.05	2.55	46.8	-4.23%	
7/6/11 15:15	FG	2.02	31	30.8	-0.51%	0	2.02	30.8	-0.51%	
7/13/11 11:35	FG	1.94	28.5	28.6	0.35%	0	1.94	28.6	0.35%	
7/19/11 13:35	FG	1.72	19.2	22.7	18.07%	-0.1	1.62	20.1	4.61%	
8/3/11 11:30	FG	1.48	14.5	16.6	14.40%	-0.06	1.42	15.1	4.35%	
8/15/11 10:06	FG	1.24	9.7	10.9	12.51%	-0.035	1.205	10.1	4.32%	
9/7/11 14:48	FG	1.10	7.7	7.8	1.18%	0	1.1	7.8	1.18%	
12/1/11 15:10	FG	1.44	15.5	15.6	0.73%	0	1.44	15.6	0.73%	
2/21/12 14:20	FG	1.18	9.9	9.6	-3.46%	0	1.18	9.6	-3.46%	
4/18/12 15:07	FG	1.67	22.3	21.4	-4.18%	0	1.67	21.4	-4.18%	
1/22/13 15:03	FG	0.99	5.1	5.4	6.55%	-0.01	0.98	5.2	2.44%	
2/7/13 13:45	FG	1.04	6.4	6.5	1.48%	0	1.04	6.5	1.48%	
3/19/13 15:50	FG	1.25	12.2	11.1	-8.68%	0.02	1.27	11.6	-4.92%	
4/12/13 15:15	FG	1.34	9.8	13.2	34.98%	-0.15	1.19	9.8	-0.18%	

Table C1. Surface Water Station SS-01 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
5/7/13 14:06	FG	1.11	7.4	8.0	8.23%	-0.02	1.09	7.6	2.34%	
6/18/13 14:32	FG	1.12	6.8	8.2	21.00%	-0.05	1.07	7.1	4.99%	
7/10/13 14:33	FG	0.94	3.6	4.4	21.98%	-0.03	0.91	3.8	4.84%	
8/14/13 15:33	FG	1.04	3.2	6.5	102.96%	-0.15	0.89	3.4	5.19%	
9/11/13 14:30	FG	1.02	4.8	6.1	26.42%	-0.05	0.97	5.0	4.48%	
10/17/13 14:45	FG	1.27	7.8	11.6	48.72%	-0.16	1.11	8.0	2.68%	
11/6/13 14:07	FG	1.24	6.8	10.9	60.49%	-0.17	1.07	7.1	4.99%	
12/17/13 14:20	FG	1.02	4.1	6.1	48.01%	-0.09	0.93	4.2	2.07%	
1/21/14 14:35	FG	1.04	4.4	6.5	47.61%	-0.09	0.95	4.6	4.51%	
2/19/14 14:28	FG	0.98	4.3	5.2	21.49%	-0.04	0.94	4.4	2.13%	
3/18/14 13:25	FG	1.64	15.7	20.6	31.19%	-0.17	1.47	16.3	4.10%	
4/16/14 13:50	FG	1.59	14.4	19.3	34.20%	-0.18	1.41	14.9	3.41%	
5/14/14 13:50	FG	2.26	32.3	37.8	17.15%	-0.14	2.12	33.7	4.36%	
6/10/14 13:40	FG	1.49	12.9	16.8	30.49%	-0.14	1.35	13.5	4.37%	
7/28/14 13:01	FG	1.10	5.1	7.8	52.76%	-0.12	0.98	5.2	2.44%	
8/28/14 13:35	FG	1.46	10.7	16.1	50.46%	-0.21	1.25	11.1	4.13%	
9/25/14 12:55	FG	1.32	6.1	12.8	109.17%	-0.29	1.03	6.3	2.97%	
10/14/14 12:10	FG	1.62	15.4	20.1	30.43%	-0.16	1.46	16.1	4.54%	
11/4/14 13:50	FG	1.51	12	17.3	44.38%	-0.2	1.31	12.5	4.39%	
12/9/14 13:40	FG	1.25	8.1	11.1	37.55%	-0.12	1.13	8.4	4.30%	
1/20/15 13:05	FG	1.14	6.5	8.7	33.36%	-0.09	1.05	6.7	3.21%	
2/18/15 15:00	FG	1.24	8.4	10.9	29.92%	-0.1	1.14	8.7	3.20%	
3/10/15 12:55	FG	1.24	8.1	10.9	34.73%	-0.11	1.13	8.4	4.30%	
4/13/15 12:55	FG	1.25	9.1	11.1	22.43%	-0.07	1.18	9.6	5.03%	
5/4/15 13:05	FG	1.37	14.8	13.9	-5.84%	0.01	1.38	14.2	-4.23%	
6/15/15 12:45	FG	1.42	13.7	15.1	10.45%	-0.04	1.38	14.2	3.46%	
7/31/15 13:10	FG	1.24	8.4	10.9	29.92%	-0.1	1.14	8.7	3.20%	
8/18/15 12:55	FG	1.03	4.5	6.3	39.58%	-0.08	0.95	4.6	2.19%	
9/2/15 12:50	FG	1.02	4.4	6.1	37.92%	-0.07	0.95	4.6	4.51%	
10/22/15 13:55	FG	1.18	6.9	9.6	38.52%	-0.11	1.07	7.1	3.47%	
11/19/15 13:15	FG	1.30	9.5	12.3	29.41%	-0.11	1.19	9.8	2.97%	
12/15/15 12:50	FG	1.21	8.3	10.2	23.28%	-0.07	1.14	8.7	4.44%	
1/12/16 13:15	FG	1.18	7.1	9.6	34.62%	-0.1	1.08	7.4	3.60%	
2/25/16 12:55	FG	1.2	8.1	10.0	23.54%	-0.07	1.13	8.4	4.30%	
3/16/16 11:55	FG	1.58	15.3	19.1	24.66%	-0.13	1.45	15.9	3.64%	
4/11/16 12:00	FG	1.71	18.1	22.4	23.80%	-0.14	1.57	18.8	3.98%	
6/1/16 12:35	FG	1.63	17.9	20.3	13.64%	-0.07	1.56	18.6	3.74%	
6/21/16 13:05	FG	1.36	10.4	13.7	31.73%	-0.12	1.24	10.9	4.93%	
7/19/16 13:08	FG	1.17	4.4	9.3	112.15%	-0.22	0.95	4.6	4.51%	

Table C1. Surface Water Station SS-01 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
8/16/16 12:35	FG	1.26	3.2	11.4	255.33%	-0.37	0.89	3.4	5.19%	
9/20/16 13:00	FG	1.13	4.1	8.4	106.05%	-0.2	0.93	4.2	2.07%	
10/13/16 13:20	FG	1.36	7.1	13.7	92.95%	-0.28	1.08	7.4	3.60%	
11/8/16 13:00	FG	1.23	6	10.7	78.09%	-0.2	1.03	6.3	4.69%	
12/13/16 13:50	FG	1.07	5.2	7.1	37.30%	-0.08	0.99	5.4	4.50%	
New Curve										
1/19/17 13:35	FG	1.03	5	2.2	-56.41%	0.11	1.14	4.8	-4.71%	
2/27/17 13:30	FG	1.16	7.7	5.2	-31.90%	0.09	1.25	7.4	-3.51%	
3/23/17 13:05	FG	1.82	23.5	22.5	-4.18%	0	1.82	22.5	-4.18%	
4/11/17 12:50	FG	1.5	15.5	13.8	-11.08%	0.04	1.54	14.8	-4.27%	
5/30/17 13:00	FG	1.85	24	23.4	-2.62%	0	1.85	23.4	-2.62%	
6/21/17 13:20	FG	1.53	13.2	14.6	10.40%	-0.03	1.5	13.8	4.42%	
7/20/17 13:40	FG	1.15	4.3	5.0	16.37%	-0.03	1.12	4.3	-0.26%	
8/8/17 13:20	FG	1.12	3	4.3	42.96%	-0.05	1.07	3.1	3.68%	
9/7/17 12:53	FG	1.16	3.2	5.2	63.85%	-0.08	1.08	3.3	4.53%	
10/12/17 13:55	FG	1.41	9.4	11.4	21.79%	-0.07	1.34	9.7	2.86%	
11/8/17 14:00	FG	1.3	7.4	8.7	17.12%	-0.04	1.26	7.7	3.73%	
12/7/17 13:50	FG	1.27	8.1	7.9	-2.19%	0	1.27	7.9	-2.19%	
1/18/18 13:44	FG	1.19	6.7	6.0	-10.95%	0.02	1.21	6.5	-3.71%	
2/23/18 15:00	FG	1.2	7.3	6.2	-14.95%	0.03	1.23	6.9	-4.99%	
3/20/18 14:04	FG	1.35	10.2	9.9	-2.73%	0	1.35	9.9	-2.73%	
4/25/18 14:45	FG	2.36	37.2	38.8	4.27%	0	2.36	38.8	4.27%	
5/29/18 14:10	FG	2.71	40.6	50.4	24.04%	-0.24	2.47	42.3	4.28%	Discharge occuring in pipe upstream and possible culverts blocked downstream - unconfirmed
6/13/18 14:40	FG	2.43	29.5	41.0	39.11%	-0.33	2.1	30.7	4.11%	Discharge occuring in pipe upstream and possible culverts blocked downstream - unconfirmed
7/11/18 13:30	FG	1.81	22.8	22.2	-2.48%	0	1.81	22.2	-2.48%	
8/15/18 15:51	FG	1.21	6.8	6.5	-5.13%	0.01	1.22	6.7	-1.55%	
9/25/18 15:50	FG	1.65	14.4	17.8	23.56%	-0.1	1.55	15.1	4.88%	
10/29/18 14:25	FG	1.54	11.2	14.8	32.48%	-0.12	1.42	11.7	4.51%	
11/14/18 13:02	FG	1.40	9.4	11.2	19.06%	-0.06	1.34	9.7	2.86%	
12/3/18 13:13	FG	1.32	8.5	9.2	7.85%	-0.01	1.31	8.9	4.90%	
1/9/19 12:30	FG	1.21	8	6.5	-19.36%	0.05	1.26	7.7	-4.05%	
2/12/19 13:54	FG	1.19	7.8	6.0	-23.51%	0.09	1.28	8.2	4.75%	
3/11/19 13:43	FG	1.22	8	6.7	-16.31%	0.04	1.26	7.7	-4.05%	
4/17/19 14:30	FG	2.10	26.2	30.7	17.23%	-0.11	1.99	27.4	4.70%	
5/14/19 13:41	FG	2.01	25.6	28.0	9.46%	-0.04	1.97	26.8	4.86%	

Table C1. Surface Water Station SS-01 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
6/6/19 13:39	FG	2.12	23.9	31.3	31.04%	-0.21	1.91	25.1	5.00%	
7/10/19 13:50	FG	1.64	14.4	17.5	21.67%	-0.09	1.55	15.1	4.88%	
8/5/19 16:04	FG	1.22	7.7	6.7	-13.05%	0.03	1.25	7.4	-3.51%	
9/23/19 15:00	FG	1.32	8.8	9.2	4.17%	0	1.32	9.2	4.17%	
10/7/19 15:45	FG	1.64	15.4	17.5	13.77%	-0.06	1.58	15.9	3.27%	
11/5/19 14:05	FG	1.46	10.9	12.7	16.87%	-0.06	1.4	11.2	2.68%	
12/13/19 13:08	FG	1.31	9.3	8.9	-4.12%	0	1.31	8.9	-4.12%	
1/27/20 16:35	FG	1.17	7.1	5.5	-22.77%	0.06	1.23	6.9	-2.27%	
2/21/20 14:39	FG	1.18	7.4	5.7	-22.64%	0.06	1.24	7.2	-2.92%	
3/5/20 14:02	FG	1.29	9.6	8.4	-12.31%	0.06	1.35	9.9	3.35%	
4/30/20 12:40	FG	1.83	18.7	22.8	21.93%	-0.12	1.71	19.4	3.95%	
5/27/20 14:36	FG	1.43	10.4	12.0	15.02%	-0.05	1.38	10.7	2.71%	
6/15/20 14:22	FG	1.44	10.2	12.2	19.81%	-0.06	1.38	10.7	4.72%	
7/7/20 14:20	FG	1.6	14.6	16.4	12.60%	-0.05	1.55	15.1	3.45%	
8/4/20 13:40	FG	1.22	4.6	6.7	45.54%	-0.08	1.14	4.8	3.58%	
9/1/20 12:55	FG	1.46	5.2	12.7	144.97%	-0.3	1.16	5.2	0.83%	
10/13/20 13:56	FG	1.32	6.3	9.2	45.51%	-0.11	1.21	6.5	2.40%	
11/5/20 12:51	FG	1.35	5.8	9.9	71.06%	-0.16	1.19	6.0	2.86%	
12/7/20 13:41	FG	1.14	5.1	4.8	-6.57%	0.02	1.16	5.2	2.81%	
1/21/21 14:04	FG	1.11	4.2	4.1	-3.53%	0	1.11	4.1	-3.53%	
2/22/21 17:28	FG	1.14	6.5	4.8	-26.70%	0.059	1.199	6.2	-4.86%	Absorbent boom in place at SS-01
3/16/21 14:28	FG	1.38	7	10.7	52.60%	-0.134	1.246	7.3	4.73%	Absorbent boom in place at SS-01
4/13/21 14:54	FG	1.49	9.2	13.5	46.97%	-0.151	1.339	9.6	4.83%	Initial SG=1.49' Final SG=1.56. Absorbent boom in place at SS-01
5/19/21 17:03	FG	1.24	6.5	7.2	10.52%	-0.015	1.225	6.8	4.88%	Absorbent boom in place at SS-01
6/9/21 12:00	FG	1.11	5.1	4.1	-20.55%	0.034	1.144	4.9	-4.70%	Absorbent boom in place at SS-01
7/8/21 11:03	FG	1.04	3.4	2.4	-29.08%	0.036	1.076	3.3	-4.38%	Absorbent boom in place at SS-01
8/4/21 15:33	FG	1.24	3.4	7.2	111.29%	-0.151	1.089	3.56	4.60%	Absorbent boom in place at SS-01
9/1/21 15:54	FG	1.36	2.3	10.2	342.36%	-0.32	1.04	2.41	4.85%	Absorbent boom in place at SS-01
10/18/21 18:34	FG	1.50	3.5	13.8	293.80%	-0.406	1.094	3.67	4.97%	
11/1/21 13:15	FG	1.44	4	12.2	205.51%	-0.325	1.115	4.17	4.26%	
12/8/21 13:50	FG	1.34	5	9.7	93.38%	-0.18	1.16	5.24	4.87%	

Table C2. Surface Water Station SS-05 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
12/16/10 14:47	FG	0.76	15.9	17.6	10.63%	-0.03	0.73	16.4	2.99%	Water is clear.
2/3/11 15:15	FG	0.57	10.6	10.3	-2.87%	0	0.57	10.3	-2.87%	
4/6/11 13:45	FG	0.96	24.9	26.3	5.61%	-0.02	0.94	25.4	1.93%	
5/19/11 14:57	FG	1.54	53.7	57.5	7.10%	-0.03	1.51	55.7	3.68%	
6/6/11 16:04	FG	1.96	87.7	85.6	-2.34%	0	1.96	85.6	-2.34%	Stage +/- 0.01
6/10/11 8:00	FG	3.34	210	210.8	0.40%	0	3.34	210.8	0.40%	USGS Cont. Data SS-04 High Point; SS-04 = 190 cfs, SS-07 = 225 cfs
6/22/11 14:56	FG	1.89	85	80.6	-5.13%	0.01	1.90	81.3	-4.30%	
6/28/11 14:09	FG	1.47	52.3	53.3	1.86%	0	1.47	53.3	1.86%	
7/6/11 14:20	FG	1.11	33.4	33.5	0.36%	0	1.11	33.5	0.36%	
7/13/11 12:23	FG	1.04	29.1	30.1	3.35%	0	1.04	30.1	3.35%	Measurement rated good
7/19/11 12:20	FG	0.95	23.2	25.8	11.37%	-0.04	0.91	24.0	3.54%	
8/3/11 14:49	FG	0.77	22.4	18.0	-19.64%	0.08	0.85	21.4	-4.56%	Measurement rated good
8/4/11 15:20	FG	0.76	16.7	17.6	5.33%	-0.01	0.75	17.2	2.89%	Measurement rated good
8/15/11 11:51	FG	0.60	12.5	11.4	-8.93%	0.015	0.62	11.9	-4.50%	Measurement rated good
9/7/11 13:50	FG	0.56	11.3	9.9	-12.05%	0.025	0.59	10.8	-4.10%	
12/1/11 13:58	FG	0.81	19.4	19.7	1.38%	0	0.81	19.7	1.38%	USGS SS-04 flow = 20 cfs
2/21/12 13:25	FG	0.64	15.5	12.9	-16.95%	0.06	0.70	15.2	-2.04%	
4/13/12 10:31	FG	1.16	34.30	36.1	5%	-0.03	1.13	34.5	0.66%	
4/18/12 14:08	FG	0.92	26.5	24.5	-8%	0.04	0.96	26.3	-0.76%	
5/9/12 14:07	FG	0.74	18.2	16.8	-8%	0.03	0.77	18.0	-1.09%	
5/23/12 14:23	FG	0.67	16.3	14.0	-14%	0.05	0.72	16.0	-1.99%	
6/8/12 1:45	FG	0.89	24.27	23.1	-5%	0.02	0.91	24.0	-1.02%	USGS Cont. Data SS-04 High Point; SS-04 = 29 cfs, SS-07 = 37 cfs
6/21/12 13:50	FG	0.59	13.5	11.0	-18%	0.06	0.65	13.3	-1.84%	
7/19/12 14:00	FG	0.68	16.5	14.4	-13%	0.05	0.73	16.4	-0.75%	
8/10/12 12:05	FG	0.46	8.3	6.5	-22%	0.05	0.51	8.2	-1.3%	
9/6/12 12:58	FG	0.46	8.43	6.5	-23%	0.06	0.52	8.5	1.2%	
10/11/12 13:18	FG	0.50	11.3	7.8	-31%	0.1	0.60	11.4	0.7%	
11/7/12 12:38	FG	0.52	10.3	8.5	-17%	0.05	0.57	10.3	0.0%	

Table C2. Surface Water Station SS-05 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
12/5/12 13:00	FG	0.54	11.8	9.2	-22%	0.07	0.61	11.8	-0.4%	
1/22/13 13:56	FG	0.44	9.4	5.9	-38%	0.1	0.54	9.2	-1.8%	
2/7/13 12:45	FG	0.46	9.4	6.5	-31%	0.07	0.53	8.9	-5.5%	
3/19/13 14:20	FG	0.57	14.6	10.3	-29%	0.1	0.67	14.0	-4.0%	
4/12/13 14:20	FG	0.67	13.2	14.0	6%	-0.01	0.66	13.6	3.3%	
5/7/13 13:08	FG	0.53	12.7	8.9	-30%	0.09	0.62	12.1	-4.54%	
6/18/13 13:21	FG	0.54	10.5	9.2	-12%	0.03	0.57	10.3	-1.95%	
7/10/13 13:00	FG	0.39	6.6	4.3	-35%	0.07	0.46	6.5	-1.41%	
8/14/13 13:51	FG	0.41	6.6	4.9	-26%	0.06	0.47	6.8	3.61%	
9/11/13 13:20	FG	0.41	7.1	4.9	-31%	0.06	0.47	6.8	-3.68%	
10/17/13 13:40	FG	0.57	11.9	10.3	-13%	0.03	0.60	11.4	-4.33%	
11/6/13 13:10	FG	0.57	12.9	10.3	-20%	0.06	0.63	12.5	-3.13%	
12/17/13 13:20	FG	0.39	8.2	4.3	-48%	0.11	0.50	7.8	-4.29%	
1/21/14 13:45	FG	0.61	13.5	11.8	-13%	0.03	0.64	12.9	-4.65%	
2/19/14 13:35	FG	0.42	8.5	5.2	-39%	0.09	0.51	8.2	-3.65%	
3/18/14 12:25	FG	0.81	20.4	19.7	-4%	0	0.81	19.7	-3.59%	
4/16/14 12:25	FG	0.82	15.1	20.1	33%	-0.11	0.71	15.6	3.17%	
5/14/14 13:05	FG	1.98	37.1	87.1	135%	-0.77	1.21	38.7	4.22%	Outlier due to high flow and high error measurement
6/10/14 12:30	FG	0.77	19.9	18.0	-10%	0.03	0.80	19.2	-3.28%	
7/28/14 12:00	FG	0.46	8.6	6.5	-24%	0.05	0.51	8.2	-4.77%	
8/28/14 12:40	FG	0.66	14.2	13.6	-4%	0	0.66	13.6	-4.00%	
9/25/14 12:10	FG	0.52	10.1	8.5	-16%	0.04	0.56	9.9	-1.60%	
10/14/14 11:30	FG	0.73	19.1	16.4	-14%	0.05	0.78	18.4	-3.59%	
11/4/14 12:50	FG	0.67	15.8	14.0	-11%	0.03	0.70	15.2	-3.90%	
12/9/14 12:40	FG	0.57	12.4	10.3	-17%	0.05	0.62	12.1	-2.23%	
1/20/15 12:20	FG	0.54	11.3	9.2	-18%	0.05	0.59	11.0	-2.49%	
2/18/15 11:40	FG	0.59	12.8	11.0	-14%	0.04	0.63	12.5	-2.37%	
3/10/15 12:10	FG	0.62	12.6	12.1	-4%	0	0.62	12.1	-3.78%	
4/13/15 12:15	FG	0.63	12.5	12.5	0%	0	0.63	12.5	-0.03%	
5/4/15 12:15	FG	0.72	17.8	16.0	-10%	0.03	0.75	17.2	-3.47%	
6/15/15 12:10	FG	0.73	18.3	16.4	-11%	0.02	0.75	17.2	-6.10%	
7/31/15 12:00	FG	0.64	14.2	12.9	-9%	0.02	0.66	13.6	-4.00%	
8/18/15 11:55	FG	0.46	7.8	6.5	-17%	0.03	0.49	7.5	-3.73%	

Table C2. Surface Water Station SS-05 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
9/2/15 12:10	FG	0.44	9.2	5.9	-36%	0.09	0.53	8.9	-3.47%	
10/22/15 13:10	FG	0.57	10.9	10.3	-6%	0.01	0.58	10.7	-2.24%	
11/19/15 12:30	FG	0.64	14.9	12.9	-14%	0.04	0.68	14.4	-3.34%	
12/15/15 12:10	FG	0.58	11.2	10.7	-5%	0	0.58	10.7	-4.86%	
1/12/16 12:35	FG	0.55	12.4	9.6	-23%	0.07	0.62	12.1	-2.23%	
2/25/16 11:50	FG	0.55	11.9	9.6	-19%	0.05	0.60	11.4	-4.33%	
3/16/16 10:55	FG	0.72	17.4	16.0	-8%	0.02	0.74	16.8	-3.58%	
4/11/16 11:05	FG	0.89	25.5	23.1	-9%	0.03	0.92	24.5	-4.03%	
6/1/16 11:55	FG	0.89	23	23.1	1%	0	0.89	23.1	0.57%	
6/21/16 12:20	FG	0.63	13.5	12.5	-7%	0.01	0.64	12.9	-4.65%	
7/19/16 12:22	FG	0.44	6.9	5.9	-15%	0.03	0.47	6.8	-0.89%	
8/16/16 11:50	FG	0.41	5.8	4.9	-16%	0.02	0.43	5.5	-4.67%	
9/20/16 12:00	FG	0.46	7.4	6.5	-12%	0.02	0.48	7.2	-3.08%	
10/13/16 11:50	FG	0.60	12.4	11.4	-8%	0.02	0.62	12.1	-2.23%	
11/8/16 11:50	FG	0.55	10	9.6	-4%	0	0.55	9.6	-4.17%	
12/13/16 12:50	FG	0.47	7.6	6.8	-10%	0.02	0.49	7.5	-1.20%	
1/19/17 12:35	FG	0.44	8.5	5.9	-31%	0.07	0.51	8.2	-3.65%	
2/27/17 12:40	FG	0.52	11.4	8.5	-25%	0.07	0.59	11.0	-3.34%	
3/23/17 11:50	FG	0.98	28.6	27.2	-5%	0	0.98	27.2	-4.80%	
4/11/17 11:35	FG	0.78	21.5	18.4	-14%	0.05	0.83	20.5	-4.57%	
5/30/17 11:45	FG	1.00	29.3	28.2	-4%	0	1.00	28.2	-3.87%	
6/21/17 12:15	FG	0.84	19.5	20.9	7%	-0.02	0.82	20.1	3.04%	
7/20/17 11:50	FG	0.50	7.2	7.8	9%	-0.01	0.49	7.5	4.29%	
8/8/17 11:40	FG	0.39	5.1	4.3	-16%	0.02	0.41	4.9	-4.11%	
9/7/17 11:50	FG	0.46	6.5	6.5	0%	0	0.46	6.5	0.11%	

Table C2. Surface Water Station SS-05 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
10/12/17 12:35	FG	0.64	10.3	12.9	25%	-0.06	0.58	10.7	3.45%	
11/8/17 12:40	FG	0.61	10.7	11.8	10%	-0.02	0.59	11.0	2.98%	
12/7/17 12:30	FG	0.60	10.5	11.4	8%	-0.01	0.59	11.0	4.94%	
1/18/18 15:20	FG	0.55	10.10	9.58	-5%	0.01	0.56	9.9	-1.60%	
2/23/18 13:25	FG	0.55	9.90	9.58	-3%	0	0.55	9.6	-3.20%	
3/20/18 12:36	FG	0.69	15.60	14.79	-5%	0.01	0.70	15.2	-2.67%	
4/25/18 13:00	FG	1.25	41.10	40.80	-1%	0	1.25	40.8	-0.74%	
5/29/18 12:55	FG	1.50	59.20	55.07	-7%	0.02	1.52	56.3	-4.92%	
6/13/18 13:00	FG	1.35	49.50	46.31	-6%	0.02	1.37	47.4	-4.16%	
7/11/18 12:00	FG	1.06	29.20	31.05	6%	-0.01	1.05	30.6	4.66%	
8/15/18 14:19	FG	0.62	10.80	12.12	12%	-0.03	0.59	11.0	2.03%	
9/25/18 13:43	FG	0.87	21.80	22.25	2%	0	0.87	22.2	2.06%	
10/29/18 12:27	FG	0.82	19.10	20.09	5%	-0.01	0.81	19.7	2.98%	
11/14/18 11:50	FG	0.75	16.30	17.18	5%	-0.01	0.74	16.8	2.93%	
12/3/18 11:59	FG	0.69	14.50	14.79	2%	0	0.69	14.8	2.02%	
1/9/19 11:10	FG	0.63	12.90	12.50	-3%	0	0.63	12.5	-3.13%	
2/12/19 12:36	FG	0.65	11.70	13.25	13%	-0.03	0.62	12.1	3.62%	
3/11/19 12:32	FG	0.65	13.60	13.25	-3%	0	0.65	13.3	-2.56%	
4/17/19 13:10	FG	1.21	39.20	38.66	-1%	0	1.21	38.7	-1.37%	
5/14/19 12:27	FG	1.14	34.40	35.04	2%	0	1.14	35.0	1.85%	
6/6/19 12:30	FG	1.17	37.40	36.57	-2%	0	1.17	36.6	-2.21%	
7/10/19 12:15	FG	0.93	23.10	24.92	8%	-0.02	0.91	24.0	3.99%	
8/5/19 13:20	FG	0.60	12.70	11.38	-10%	0.02	0.62	12.1	-4.54%	
9/23/19 13:40	FG	0.69	15.10	14.79	-2%	0	0.69	14.8	-2.04%	
10/7/19 13:35	FG	1.07	29.20	31.54	8%	-0.02	1.05	30.6	4.66%	

Table C2. Surface Water Station SS-05 Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
11/5/19 12:08	FG	1.00	25.80	28.17	9%	-0.03	0.97	26.8	3.72%	
12/13/19 11:17	FG	0.98	26.70	27.23	2%	0	0.98	27.2	1.97%	
1/27/20 12:39	FG	0.85	20.70	21.38	3%	0	0.85	21.4	3.28%	
2/21/20 11:24	FG	0.92	25.00	24.47	-2%	0	0.92	24.5	-2.11%	
3/5/20 11:25	FG	0.85	22.50	21.38	-5%	0	0.85	21.4	-4.99%	
5/27/20 12:01	FG	0.99	34.4	27.69	-19%	0.11	1.10	33.0	-4.01%	
6/15/20 12:05	FG	1.04	31.40	30.08	-4%	0	1.04	30.1	-4.22%	
7/7/20 11:25	FG	1.2	39.5	38.14	-3%	0	1.20	38.1	-3.45%	
8/4/20 11:41	FG	0.78	19.9	18.41	-7%	0.02	0.80	19.2	-3.28%	
9/1/20 11:22	FG	0.83	19.1	20.52	7%	-0.02	0.81	19.7	2.98%	
10/13/20 12:28	FG	0.88	22	22.69	3%	0	0.88	22.7	3.13%	
11/5/20 11:16	FG	0.89	22.4	23.13	3%	0	0.89	23.1	3.26%	
12/7/20 12:05	FG	0.79	18.2	18.83	3%	0	0.79	18.8	3.46%	
1/21/21 11:50	FG	0.85	20.60	21.38	4%	0	0.85	21.4	3.78%	
2/22/21 15:53	FG	0.85	23.40	21.38	-9%	0.02	0.87	22.2	-4.92%	
3/16/21 11:08	FG	0.99	28.00	27.69	-1%	0	0.99	27.7	-1.09%	
4/13/21 13:23	FG	0.98	27.60	27.23	-1%	0	0.98	27.2	-1.35%	
5/19/21 14:12	FG	0.86	22.00	21.81	-1%	0	0.86	21.8	-0.85%	
6/9/21 17:15	FG	0.90	24.90	23.57	-5%	0.01	0.91	24.0	-3.53%	
7/8/21 10:10	FG	0.76	18.90	17.59	-7%	0.01	0.77	18.0	-4.76%	
8/4/21 12:55	FG	0.80	19.80	19.25	-3%	0	0.80	19.2	-2.79%	
9/1/21 14:08	FG	0.72	20.20	15.98	-21%	0.079	0.80	19.2	-4.92%	
10/18/21 15:24	FG	0.71	15.40	15.58	1%	0	0.71	15.6	1.16%	
11/1/21 13:40	FG	0.87	25.80	22.25	-14%	0.051	0.92	24.5	-4.97%	
12/8/21 12:03	FG	0.88	19.60	22.69	16%	-0.049	0.83	20.56	4.90%	

Table C3. Surface Water Station SS-05A Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
5/21/09 11:40 AM	FG	1.35	32.8	35.5	8.31%	-0.020	1.33	34.7	5.69%	Q = 15.019x2 + 2.745x + 4.4484 applied here forward
6/5/09 11:11 AM	FG	1.08	24.4	24.9	2.18%	0.000	1.08	24.9	2.18%	Supplemental elevated flow measurement
6/23/09 3:05 PM	FG	1.24	29.4	30.9	5.26%	0.000	1.24	30.9	5.26%	SS-05A culverts plugged, losing water to diversion channel
6/24/09 1:26 PM	FG	1.16	27.6	27.8	0.88%	0.000	1.16	27.8	0.88%	SS-05A culverts cleared beginning approximately 1000 on 6/24/09
6/29/09 11:08 AM	FG	0.86	17.7	17.9	1.23%	0.000	0.86	17.9	1.23%	
7/21/09 11:10 AM	FG	0.61	10.8	11.7	8.44%	-0.015	0.60	11.4	5.54%	
8/27/09 11:01 AM	FG	0.62	9.8	11.9	21.67%	-0.080	0.54	10.3	5.21%	
9/23/09 11:25 AM	FG	0.57	9.7	10.9	12.30%	-0.035	0.54	10.2	5.32%	
10/22/09 11:34 AM	FG	0.96	20.7	20.9	1.09%	0.000	0.96	20.9	1.09%	
11/18/09 12:26 PM	FG	0.78	14.8	15.7	6.26%	-0.005	0.78	15.6	5.38%	
12/16/09 1:00 PM	FG	0.54	9.6	10.3	7.40%	-0.010	0.53	10.1	5.44%	
2/24/2010 11:12	FG	0.47	8.8	10.4	18.34%	-0.090	0.38	9.0	2.41%	
4/16/2010 10:45	FG	0.97	19.5	22.5	15.25%	-0.070	0.90	20.3	4.35%	
4/23/2010 14:32	FG	1.21	29.4	30.8	4.87%	0.000	1.21	30.8	4.87%	SG is +-0.01 ft
5/17/2010 11:42	FG	0.92	22.3	20.9	-6.09%	0.040	0.96	22.2	-0.62%	
6/3/2010 16:57	FG	1.95	66.8	67.1	0.46%	0.000	1.95	67.1	0.46%	
6/4/2010 13:13	FG	1.85	63.1	61.3	-2.89%	0.000	1.85	61.3	-2.89%	
6/8/2010 12:06	FG	1.67	54.2	51.5	-4.95%	0.010	1.68	52.0	-4.00%	
6/18/2010 12:00	FG	3.257	170.0	169.9	-0.06%		3.26	169.9		
6/23/2010 11:55	FG	1.89	60.3	63.6	5.43%	-0.020	1.87	62.4	3.51%	Stage +/- 0.01.
7/7/2010 12:10	FG	1.17	29.8	29.3	-1.60%	0.000	1.17	29.3	-1.60%	
7/16/2010 11:32	FG	0.73	17.3	15.8	-8.78%	0.040	0.77	16.8	-3.00%	
9/15/2010 11:47	FG	0.62	14.3	13.3	-7.19%	0.030	0.65	13.9	-2.65%	
12/16/2010 13:05	FG	0.68	15.2	14.6	-3.97%	0.000	0.68	14.6	-3.97%	Water is clear.
2/3/2011 12:55	FG	0.84	12.2	18.6	52.80%	0.00	0.84	18.6	52.80%	Considerable ice in stream at, above, and below site. Broke ice to measure flow. Stage was 0.94 ft at start of gaging and 0.84 ft at completion. Data point unreliable due to ice.
4/6/2011 12:08	FG	1.03	25.9	24.4	-5.77%	0.02	1.05	25.1	-3.19%	
5/18/2011 15:41	FG	1.84	56.6	60.7	7.26%	-0.07	1.77	56.8	0.39%	
6/6/2011 17:16	FG	2.26	91.0	87.0	-4.38%	0.00	2.26	87.0	-4.38%	
6/12/2011 07:00	FG	3.23	172.0	167.3	-2.75%	0.00	3.23	167.3	-2.75%	SS-07 Flow = 176 cfs, SS-04 = 164 cfs
6/22/2011 13:03	FG	2.14	80.8	79.0	-2.26%	0.00	2.14	79.0	-2.26%	
6/28/2011 12:07	FG	1.56	52.3	52.4	0.11%	0.00	1.56	52.4	0.11%	
7/6/2011 11:53	FG	1.09	33.3	30.8	-7.49%	0.05	1.14	32.8	-1.37%	
7/12/2011 12:32	FG	0.91	25.7	24.0	-6.76%	0.04	0.95	25.4	-1.11%	
7/19/2011 11:00	FG	0.91	23.6	24.0	1.54%	0.00	0.91	24.0	1.54%	
8/4/2011 14:35	FG	0.82	15.3	20.8	36.17%	-0.15	0.67	16.1	4.93%	
8/15/2011 14:01	FG	0.53	12.5	12.1	-3.33%	0.00	0.53	12.1	-3.33%	

Table C3. Surface Water Station SS-05A Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
9/7/2011 12:16	FG	0.47	11.9	10.5	-11.54%	0.04	0.51	11.6	-2.90%	
12/1/2011 12:10	FG	1.39	19.4	24.3	25.11%	-0.12	1.27	20.0	3.13%	USGS SS-04 = 17
2/21/2012 11:33	FG	1.17	13.4	16.8	25.26%	-0.11	1.06	13.6	1.41%	USGS SS-04 = 14
3/23/2012 12:04	FG	1.68	36.4	36.4	-0.09%	0.00	1.68	36.4	-0.09%	
4/10/2012 12:50	FG	1.58	31.8	31.9	0.35%	0.00	1.58	31.9	0.35%	
4/13/2012 12:13	FG	1.70	38.2	37.3	-2.37%	0.02	1.72	38.2	0.09%	
4/18/2012 12:35	FG	1.47	29.2	27.4	-6.32%	0.04	1.51	29.0	-0.79%	
5/9/2012 12:27	FG	1.16	17.1	16.5	-3.63%	0.02	1.18	17.1	-0.04%	
5/23/2012 12:35	FG	1.10	16.2	14.7	-9.21%	0.05	1.15	16.2	-0.15%	
6/8/2012 11:35	FG	1.38	26.5	23.9	-9.78%	0.06	1.44	26.2	-1.19%	
6/21/2012 11:33	FG	1.00	13.0	12.0	-7.70%	0.04	1.04	13.0	0.36%	
7/16/2012 18:00	FG	2.84	110.0	110.1	0.10%	0.00	2.84	110.1	0.10%	SS-07 Flow = 121 cfs, SS-04 = 101 cfs
7/19/2012 12:20	FG	1.02	16.3	12.5	-23.21%	0.15	1.17	16.8	2.97%	
8/10/2012 10:50	FG	1.08	8.2	14.1	72.47%	0.00	1.08	14.1	72.47%	Beaver dam distrupting measurements
9/6/2012 11:36	FG	1.51	8.1	29.0	256.76%	0.00	1.51	29.0	256.76%	Beaver dam distrupting measurements
10/11/2012 11:46	FG	1.81	10.1	42.6	321.93%	0.00	1.81	42.6	321.93%	Downstream beaver dam causing stage increase. Water is contained to channel.
11/7/2012 11:15	FG	1.83	10.2	43.6	327.66%	0.00	1.83	43.6	327.66%	Downstream beaver dam causing stage increase. Water is contained to channel.
12/5/2012 11:36	FG	1.85	13.9	44.6	221.14%	-0.76	1.09	14.4	3.77%	downstream beaver dam. Water is contained to channel.
1/22/2013 12:20	FG	1.82	15.9	43.1	171.17%	-0.66	1.16	16.5	3.64%	Beaver Dam dowmstream impacting stage greatly
2/7/2013 11:30	FG	1.92	10.9	48.3	343.10%	-0.95	0.97	11.2	3.16%	Beaver Dam dowmstream impacting stage greatly
3/19/2013 12:53	FG	1.98	17.1	51.6	201.47%	-0.78	1.20	17.7	3.62%	Beaver Dam dowmstream impacting stage greatly
4/12/2013 12:36	FG	1.95	15.5	49.9	222.01%	-0.80	1.15	16.2	4.36%	Beaver Dam dowmstream impacting stage greatly
5/7/2013 11:20	FG	1.90	12.0	47.2	293.65%	-0.88	1.02	12.5	4.30%	Beaver Dam dowmstream impacting stage greatly
6/18/2013 11:30	FG	1.79	10.3	41.6	304.08%	-0.85	0.94	10.5	2.11%	Beaver Dam dowmstream impacting stage greatly
7/10/2013 11:20	FG	1.88	6.0	46.2	669.82%	-1.15	0.73	6.2	3.15%	Beaver Dam dowmstream impacting stage greatly
8/14/2013 12:15	FG	2.10	5.8	58.4	906.63%	-1.38	0.72	6.0	3.73%	Beaver Dam dowmstream impacting stage greatly
9/11/2013 11:45	FG	1.94	7.5	49.4	558.27%	-2.45	-0.51	7.7	3.09%	Beaver Dam dowmstream impacting stage greatly
10/17/2013 12:30	FG	2.15	10.8	61.4	468.15%	-2.80	-0.65	10.8	0.17%	Beaver Dam dowmstream impacting stage greatly
11/6/2013 11:45	FG	2.03	12.3	54.3	341.84%	-2.75	-0.72	12.6	2.30%	Beaver Dam dowmstream impacting stage greatly
12/17/2013 11:37	FG	1.87	8.2	45.7	456.94%	-2.39	-0.52	7.9	-3.26%	Beaver Dam dowmstream impacting stage greatly
New Curve										
1/21/14 12:10 PM	FG	0.59	8.50	12.8	50.99%	-0.14	0.45	8.9	4.73%	Beaver Dam downstream removed 1-7-14. New Rating curve developed due to significant changes in stream structure. Q= $11.277x^2 + 16.361x - 0.7441$
2/19/2014 12:07	FG	0.54	8.2	11.4	38.77%	-0.11	0.43	8.4	2.15%	
3/18/2014 11:00	FG	0.76	18.4	18.2	-1.07%	0.00	0.76	18.2	-1.07%	
4/16/2014 10:50	FG	0.84	19.3	21.0	8.58%	-0.02	0.82	20.3	4.95%	
5/14/2014 11:10	FG	1.24	36.4	36.9	1.33%	0.00	1.24	36.9	1.33%	
6/10/2014 11:05	FG	0.74	19.1	17.5	-8.18%	0.02	0.76	18.2	-4.69%	

Table C3. Surface Water Station SS-05A Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
7/28/2014 10:42	FG	0.44	9.3	8.6	-7.12%	0.01	0.45	8.9	-4.28%	
8/28/2014 10:55	FG	0.61	14.6	13.4	-8.00%	0.02	0.63	14.0	-3.84%	
9/25/2014 10:55	FG	0.49	9.8	10.0	1.84%	0.00	0.49	10.0	1.84%	
10/14/2014 10:30	FG	0.70	19.1	16.2	-15.00%	0.06	0.76	18.2	-4.69%	
11/4/2014 11:40	FG	0.63	15.6	14.0	-10.01%	0.03	0.66	15.0	-4.06%	
12/9/2014 11:05	FG	0.50	12.0	10.3	-14.54%	0.05	0.55	11.7	-2.79%	
1/20/15 11:05 AM	FG	0.48	11.3	9.71	-14.09%	0.04	0.52	10.8	-4.31%	
2/18/15 10:25 AM	FG	0.52	12.5	10.81	-13.50%	0.04	0.56	12.0	-4.36%	
3/10/15 10:55 AM	FG	0.52	12.1	10.81	-10.64%	0.03	0.55	11.7	-3.59%	
4/13/15 11:00 AM	FG	0.53	13.8	11.09	-19.60%	0.07	0.60	13.1	-4.84%	
5/4/15 10:50 AM	FG	0.64	18.3	14.35	-21.61%	0.10	0.74	17.5	-4.16%	
6/15/15 11:00 AM	FG	0.63	17.4	14.04	-19.32%	0.08	0.71	16.6	-4.85%	
7/31/15 11:00 AM	FG	0.57	14.8	12.25	-17.26%	0.07	0.64	14.3	-3.07%	
8/18/15 12:00 AM	FG	0.37	8.4	6.85	-18.41%	0.05	0.42	8.1	-3.37%	
9/2/15 10:55 AM	FG	0.38	7.6	7.10	-6.56%	0.01	0.39	7.4	-3.26%	
10/22/15 12:00 PM	FG	0.47	12.3	9.44	-23.28%	0.09	0.56	12.0	-2.81%	
11/19/15 11:30 AM	FG	0.57	14.9	12.25	-17.81%	0.07	0.64	14.3	-3.72%	
12/15/15 10:50 AM	FG	0.52	11.5	10.81	-5.97%	0.01	0.53	11.1	-3.52%	
1/12/2016 11:20	FG	0.49	9.5	9.98	5.06%	-0.01	0.48	9.7	2.18%	
2/25/2016 10:25	FG	0.42	9.1	8.12	-10.80%	0.030	0.45	8.9	-2.18%	
3/16/2016 09:55	FG	0.59	14.2	12.83	-9.62%	0.030	0.62	13.7	-3.28%	
4/11/2016 10:20	FG	0.81	23.3	19.91	-14.56%	0.070	0.88	22.4	-3.92%	
6/1/2016 10:35	FG	0.8	22.8	19.56	-14.20%	0.060	0.86	21.7	-4.97%	
6/21/2016 10:30	FG	0.59	13.2	12.83	-2.77%	0.000	0.59	12.8	-2.77%	
7/19/2016 11:34	FG	0.41	8.3	7.86	-5.31%	0.010	0.42	8.1	-2.21%	
8/16/2016 10:10	FG	0.33	5.3	5.88	11.00%	-0.020	0.31	5.4	2.10%	
9/20/2016 10:50	FG	0.36	6.5	6.61	1.65%	0.000	0.36	6.6	1.65%	
10/13/2016 10:50	FG	0.52	10.3	10.81	4.98%	0.000	0.52	10.8	4.98%	
11/8/2016 10:40	FG	0.44	9.3	8.64	-7.12%	0.010	0.45	8.9	-4.28%	
12/13/2016 11:15	FG	0.38	7.1	7.10	0.02%	0.00	0.38	7.10	0.02%	

Table C3. Surface Water Station SS-05A Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
1/19/2017 11:10	FG	0.35	7.5	6.36	-15.15%	0.04	0.39	7.35	-1.97%	
2/27/2017 11:25	FG	0.4	10	7.60	-23.95%	0.08	0.48	9.71	-2.93%	
3/23/2017 10:30	FG	0.89	28.6	22.75	-20.46%	0.12	1.01	27.28	-4.60%	
4/11/2017 10:35	FG	0.66	19.1	14.97	-21.64%	0.10	0.76	18.20	-4.69%	
5/30/2017 10:30	FG	0.92	26.8	23.85	-11.00%	0.05	0.97	25.74	-3.97%	
6/21/2017 10:40	FG	0.71	18.7	16.56	-11.46%	0.04	0.75	17.87	-4.44%	
7/20/2017 10:55	FG	0.4	7.8	7.60	-2.50%	0.00	0.40	7.60	-2.50%	
8/8/2017 10:30	FG	0.34	6.3	6.12	-2.82%	0.00	0.34	6.12	-2.82%	
9/7/2017 10:40	FG	0.31	7.4	5.41	-26.87%	0.07	0.38	7.10	-4.03%	
10/12/2017 10:50	FG	0.48	11.3	9.71	-14.09%	0.04	0.52	10.81	-4.31%	
11/8/2017 11:25	FG	0.44	9.8	8.64	-11.86%	0.03	0.47	9.44	-3.71%	
12/7/2017 11:10	FG	0.44	10.6	8.64	-18.51%	0.06	0.50	10.26	-3.25%	
1/18/2018 10:35	FG	0.42	11.4	8.12	-28.80%	0.110	0.53	11.09	-2.68%	
2/23/2018 11:55	FG	0.44	9.4	8.64	-8.11%	0.020	0.46	9.17	-2.47%	
3/20/2018 11:15	FG	0.57	13.8	12.25	-11.26%	0.030	0.60	13.13	-4.84%	
4/25/2018 11:30	FG	1.16	38.5	33.41	-13.22%	0.080	1.24	36.88	-4.20%	
5/29/2018 11:50	FG	1.52	49.1	50.18	2.20%	0.000	1.52	50.18	2.20%	
6/13/2018 11:30	FG	1.33	40.9	40.96	0.16%	0.000	1.33	40.96	0.16%	
7/11/2018 10:45	FG	0.93	27.0	24.23	-10.28%	0.040	0.97	25.74	-4.68%	
8/15/2018 12:58	FG	0.52	11.3	10.81	-4.31%	0.000	0.52	10.81	-4.31%	
9/25/2018 12:09	FG	0.75	22.9	17.87	-21.97%	0.120	0.87	22.03	-3.82%	
10/29/2018 11:24	FG	0.66	19.9	14.97	-24.79%	0.121	0.78	18.91	-4.96%	
11/14/2018 10:46	FG	0.60	15.8	13.13	-16.88%	0.070	0.67	15.28	-3.29%	
12/3/2018 11:08	FG	0.58	14.7	12.54	-14.70%	0.050	0.63	14.04	-4.50%	
1/9/2019 10:20	FG	0.52	12.8	10.81	-15.52%	0.050	0.57	12.25	-4.33%	
2/12/2019 11:14	FG	0.53	10.9	11.09	1.79%	0.000	0.53	11.1	1.79%	
3/11/2019 11:33	FG	0.67	11.9	15.28	28.40%	-0.100	0.57	12.2	2.90%	
4/17/2019 11:45	FG	1.11	36.8	31.31	-14.92%	0.090	1.20	35.1	-4.54%	
5/14/2019 11:38	FG	1.02	30	27.68	-7.74%	0.030	1.05	28.9	-3.77%	
6/6/2019 11:40	FG	1.09	32.8	30.49	-7.05%	0.030	1.12	31.7	-3.27%	

Table C3. Surface Water Station SS-05A Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
7/10/2019 11:30	FG	0.79	21.6	19.22	-11.02%	0.040	0.83	20.6	-4.61%	
8/5/2019 12:20	FG	0.48	10.6	9.71	-8.42%	0.020	0.50	10.3	-3.25%	
9/23/2019 11:30	FG	0.55	13.8	11.67	-15.47%	0.050	0.60	13.1	-4.84%	
10/7/2019 11:40	FG	0.96	29.3	25.36	-13.46%	0.070	1.03	28.1	-4.19%	
11/5/2019 11:00	FG	0.88	24.1	22.39	-7.11%	0.020	0.90	23.1	-4.09%	
12/13/2019 10:25	FG	0.86	25.4	21.67	-14.70%	0.070	0.93	24.2	-4.63%	
1/27/2020 11:25	FG	0.66	18.3	14.97	-18.22%	0.080	0.74	17.5	-4.16%	
2/21/2020 10:32	FG	0.78	22.6	18.88	-16.47%	0.075	0.86	21.5	-4.92%	
3/5/2020 10:32	FG	0.68	19.7	15.60	-20.83%	0.096	0.78	18.7	-4.86%	
5/27/2020 11:14	FG	1.03	29	28.07	-3.20%	0.000	1.03	28.1	-3.20%	
6/15/2020 11:31	FG	0.96	26.9	25.36	-5.74%	0.006	0.97	25.6	-4.89%	
7/7/2020 10:43	FG	1.16	33.5	33.41	-0.27%	0.000	1.16	33.4	-0.27%	
8/4/2020 11:16	FG	0.76	16.9	18.20	7.72%	-0.014	0.75	17.7	4.95%	
9/1/2020 10:44	FG	0.75	17.9	17.87	-0.17%	0.000	0.75	17.9	-0.17%	
10/13/2020 11:40	FG	0.74	21.6	17.54	-18.80%	0.088	0.83	20.5	-4.93%	
11/5/2020 10:34	FG	0.79	18.6	19.22	3.33%	0.000	0.79	19.2	3.33%	
12/7/2020 11:35	FG	0.64	17	14.35	-15.61%	0.080	0.72	16.9	-0.70%	
1/21/2021 14:04	FG	0.72	21.6	16.88	-21.84%	0.110	0.83	20.6	-4.61%	
2/22/2021 14:14	FG	0.73	21.5	17.21	-19.96%	0.100	0.83	20.6	-4.17%	
3/16/2021 11:30	FG	0.88	27.4	22.39	-18.30%	0.100	0.98	26.1	-4.67%	
4/13/2021 11:59	FG	0.86	24.5	21.67	-11.56%	0.045	0.91	23.3	-4.90%	
5/19/2021 14:03	FG	0.72	18	16.88	-6.21%	0.007	0.73	17.1	-4.94%	
6/9/2021 15:58	FG	0.78	24.5	18.88	-22.95%	0.125	0.91	23.3	-4.90%	
7/8/2021 09:08	FG	0.62	17.2	13.73	-20.15%	0.090	0.71	16.6	-3.74%	
8/4/2021 12:42	FG	0.69	17.1	15.91	-6.94%	0.011	0.70	16.3	-4.87%	
9/1/2021 12:43	FG	0.75	18.5	17.87	-3.41%	0.000	0.75	17.9	-3.41%	
10/18/2021 14:12	FG	0.61	14.2	13.43	-5.41%	0.002	0.61	13.5	-4.98%	
11/1/2021 12:25	FG	0.74	21.1	17.54	-16.88%	0.074	0.81	20.0	-5.00%	
12/8/2021 11:05	FG	0.74	22.9	17.54	-23.41%	0.123	0.86	21.8	-4.92%	

Table C4. BPSOU Surface Water Station SS-06A Rating Table

Date/Time	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
1/22/13 11:40	FG	0.29	10	11.5	15%	0.090	0.38	11.0	10.40%	Upstream and downstream beaver dams removed between 01/15/13 and 01/18/13, thus water level has dropped considerably here. All flow is now confined to channel. Stream is quite turbid at this site.
2/7/13 11:05	FG	0.25	10.5	11.9	14%	0.120	0.37	11.1	5.40%	
3/19/13 11:45	FG	0.49	14.6	11.2	-23%	-0.370	0.12	14.0	-4.39%	
4/12/13 12:05	FG	0.74	14.4	14.6	1%	0.000	0.74	14.6	1.45%	
5/7/13 10:56	FG	0.9	11.6	19.0	64%	0.000	0.90	19.0	64.07%	
6/18/13 10:56	FG	0.9	10.8	19.0	76%	0.000	0.90	19.0	76.23%	
7/10/13 10:55	FG	1.84	6.4	80.3	1154%	0.000	1.84	80.3	1154.40%	Excesive vegetation in channel, downstream beaver dams
8/14/13 11:35	FG	1.96	4.2	92.4	2101%	0.000	1.96	92.4	2100.92%	Downstream beaver dams, may be losing water overland. Poor flow measurement
9/11/13 11:15	FG	1.9	6.7	86.2	1187%	0.000	1.90	86.2	1187.13%	Water is ponded here from downstream beaver dams. Losing in-stream flow from overland flow caused by beaver dams.
10/17/13 12:06	FG	2.05	8.1	102.2	1162%	0.000	2.05	102.2	1161.74%	Water is ponded here from downstream beaver dams. Losing in-stream flow from overland flow caused by beaver dams.
11/6/13 11:13	FG	2.2	8.8	119.7	1260%	0.000	2.20	119.7	1260.21%	Water is ponded here from downstream beaver dams. Losing in-stream flow from overland flow caused by beaver dams.
12/17/13 11:15	FG	2.09	7.2	106.7	1382%	0.000	2.09	106.7	1382.17%	Water is ponded here from downstream beaver dams. Losing in-stream flow from overland flow caused by beaver dams.
1/21/14 11:40	FG	0.2	8.9	8.9	0%	0.000	0.20	8.9	0.01%	New Curve was developed due to removal of beaver dams and changed stream geometry. Q= 4.2059x2 + 38.195x + 1.094
2/19/14 11:25	FG	0.18	8.5	8.1	-5%	0.000	0.18	8.1	-4.64%	
3/18/14 10:20	FG	0.42	17.9	17.9	0%	0.000	0.42	17.9	-0.12%	
4/16/14 10:25	FG	0.54	22.4	22.9	2%	0.000	0.54	22.9	2.44%	
5/14/14 10:55	FG	0.88	38	38.0	0%	0.000	0.88	38.0	-0.10%	
6/10/14 10:45	FG	0.45	19	19.1	1%	0.000	0.45	19.1	0.70%	
7/28/14 10:15	FG	0.2	8.8	8.9	1%	0.000	0.20	8.9	1.15%	
8/28/14 10:25	FG	0.38	16.2	16.2	0%	0.000	0.38	16.2	0.10%	
9/25/14 10:30	FG	0.27	11.3	11.7	4%	0.000	0.27	11.7	3.66%	
10/14/14 10:15	FG	0.43	19	18.3	-4%	0.000	0.43	18.3	-3.71%	
11/4/14 11:05	FG	0.37	17	15.8	-7%	0.010	0.38	16.2	-4.62%	
12/9/14 10:40	FG	0.32	12.6	13.7	9%	-0.020	0.30	12.9	2.63%	
1/20/15 10:40	FG	0.26	11.5	11.3	-2%	0.000	0.26	11.3	-1.66%	
2/18/15 10:05	FG	0.26	13.2	11.3	-14%	0.040	0.30	12.9	-2.04%	
3/10/15 10:20	FG	0.34	12.6	14.6	16%	-0.040	0.30	12.9	2.63%	
4/13/15 10:40	FG	0.3	14.4	12.9	-10%	0.020	0.32	13.7	-4.53%	
5/4/15 10:30	FG	0.43	18.6	18.3	-2%	0.000	0.43	18.3	-1.64%	
6/15/15 10:35	FG	0.46	18	19.6	9%	-0.020	0.44	18.7	3.97%	
7/31/15 10:40	FG	0.39	15.8	16.6	5%	-0.010	0.38	16.2	2.63%	
8/18/15 10:10	FG	0.18	8.7	8.1	-7%	0.010	0.19	8.5	-2.27%	
9/2/15 10:35	FG	0.15	9.1	6.9	-24%	0.050	0.20	8.9	-2.18%	
10/22/15 11:25	FG	0.32	12.1	13.7	14%	-0.030	0.29	12.5	3.51%	
11/19/15 11:00	FG	0.37	15.7	15.8	1%	0.000	0.37	15.8	0.65%	
12/15/15 10:30	FG	0.33	11.4	14.2	24%	-0.060	0.27	11.7	2.75%	

Table C4. BPSOU Surface Water Station SS-06A Rating Table

Date/Time	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
1/12/16 10:55	FG	0.3	11.1	12.9	16%	-0.040	0.26	11.3	1.88%	
2/25/16 9:50	FG	0.3	9.2	12.9	41%	-0.090	0.21	9.3	1.09%	
3/16/16 9:35	FG	0.44	14.1	18.7	33%	-0.100	0.34	14.6	3.31%	
4/11/16 10:00	FG	0.66	24.1	28.1	17%	-0.070	0.59	25.1	4.12%	
6/1/16 10:10	FG	0.62	21.7	26.4	22%	-0.090	0.53	22.5	3.77%	
6/21/16 10:15	FG	0.42	14.7	17.9	22%	-0.060	0.36	15.4	4.69%	
7/19/16 10:41	FG	0.23	8.2	10.1	23%	-0.040	0.19	8.5	3.69%	
8/16/16 9:50	FG	0.13	5.5	6.1	11%	-0.010	0.12	5.7	4.33%	
9/20/16 10:15	FG	0.21	7.4	9.3	26%	-0.040	0.17	7.7	4.17%	
10/13/16 10:25	FG	0.34	12.4	14.6	17%	-0.040	0.30	12.9	4.28%	
11/8/16 10:05	FG	0.32	10.2	13.7	35%	-0.080	0.24	10.5	2.97%	
12/13/16 10:25	FG	0.21	7.7	9.3	21%	-0.040	0.17	7.7	0.11%	
1/19/17 10:40	FG	0.18	8.3	8.1	-2%	0.000	0.18	8.1	-2.34%	
2/27/17 10:45	FG	0.22	10.7	9.7	-9%	0.020	0.24	10.5	-1.84%	
3/23/17 9:45	FG	0.68	28.9	29.0	0%	0.000	0.68	29.0	0.39%	
4/11/17 10:00	FG	0.46	19.4	19.6	1%	0.000	0.46	19.6	0.79%	
5/30/17 10:15	FG	0.73	32.4	31.2	-4%	0.000	0.73	31.2	-3.65%	
6/21/17 10:15	FG	0.5	18.8	21.2	13%	-0.040	0.46	19.6	4.01%	
7/20/17 10:35	FG	0.22	7.9	9.7	23%	-0.040	0.18	8.1	2.60%	
8/8/17 10:10	FG	0.12	6.2	5.7	-7%	0.010	0.13	6.1	-1.12%	
9/7/17 10:10	FG	0.13	7.1	6.1	-14%	0.020	0.15	6.9	-2.57%	
10/12/17 10:20	FG	0.29	12.1	12.5	4%	0.000	0.29	12.5	3.51%	
11/8/17 11:00	FG	0.23	9.5	10.1	6%	-0.010	0.22	9.7	2.11%	
12/7/17 10:40	FG	0.27	10.2	11.7	15%	-0.030	0.24	10.5	2.97%	
1/18/18 10:10	FG	0.25	11.1	10.9	-2%	0.000	0.25	10.9	-1.75%	
2/23/18 11:25	FG	0.28	11	12.1	10%	-0.020	0.26	11.3	2.81%	
3/20/18 10:38	FG	0.44	15.94	18.7	17%	-0.050	0.39	16.6	4.33%	
4/25/18 10:45	FG	0.9	39.5	38.9	-2%	0.000	0.90	38.9	-1.58%	
5/29/18 11:17	FG	1.28	57.3	56.9	-1%	0.000	1.28	56.9	-0.74%	
6/13/18 11:00	FG	1.075	45.7	47.0	3%	0.000	1.08	47.0	2.88%	
7/11/18 10:10	FG	0.74	29.2	31.7	8%	-0.030	0.71	30.3	3.88%	
8/15/18 12:25	FG	0.32	11.8	13.7	17%	-0.020	0.30	12.9	9.59%	
9/25/18 11:38	FG	0.52	20.7	22.1	7%	-0.010	0.51	21.7	4.67%	
10/29/18 10:51	FG	0.48	18.7	20.4	9%	-0.020	0.46	19.6	4.57%	
11/14/18 10:15	FG	0.42	15.8	17.9	13%	-0.040	0.38	16.2	2.63%	
12/3/18 10:37	FG	0.39	15	16.6	11%	-0.030	0.36	15.4	2.60%	
1/9/19 9:50	FG	0.36	13.2	15.4	17%	-0.040	0.32	13.7	4.14%	
2/12/19 10:38	FG	0.34	12.4	14.6	17%	-0.040	0.30	12.9	4.28%	
3/11/19 11:06	FG	0.74	15.9	31.7	99%	-0.350	0.39	16.6	4.59%	Point omitted. Shift resulted in neg discharge.
4/17/19 11:10	FG	0.86	38.6	37.1	-4%	0.000	0.86	37.1	-4.01%	
5/14/19 10:57	FG	0.79	33	33.9	3%	0.000	0.79	33.9	2.71%	
6/6/19 11:20	FG	0.84	36.9	36.1	-2%	0.000	0.84	36.1	-2.04%	
7/10/19 10:45	FG	0.6	24.3	25.5	5%	0.000	0.60	25.5	5.04%	
8/5/19 11:30	FG	0.34	11.8	14.6	23%	-0.060	0.28	12.1	2.70%	

Table C4. BPSOU Surface Water Station SS-06A Rating Table

Date/Time	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
9/23/19 11:05	FG	0.38	13.4	16.2	21%	-0.060	0.32	13.7	2.59%	
10/7/19 11:05	FG	0.68	30.2	29.0	-4%	0.010	0.69	29.5	-2.48%	
11/5/19 10:35	FG	0.64	26	27.3	5%	0.000	0.64	27.3	4.85%	
12/13/19 10:03	FG	0.58	25	24.7	-1%	0.000	0.58	24.7	-1.35%	
1/27/20 10:50	FG	0.52	20.2	22.1	9%	-0.030	0.49	20.8	3.07%	
2/21/20 10:05	FG	0.57	23.5	24.2	3%	0.000	0.57	24.2	3.11%	
3/5/20 10:06	FG	0.54	21	22.9	9%	-0.021	0.52	22.1	5.00%	
5/27/20 10:47	FG	0.72	32.3	30.8	-5%	0.000	0.72	30.8	-4.72%	
6/15/20 11:10	FG	0.65	27.6	27.7	0%	0.000	0.65	27.7	0.35%	
7/7/20 10:15	FG	0.84	40.1	36.1	-10%	0.043	0.88	38.1	-4.99%	
8/4/20 10:38	FG	0.44	19.9	18.7	-6%	0.005	0.45	18.9	-4.91%	
9/1/20 10:18	FG	0.48	19.5	20.4	5%	0.000	0.48	20.4	4.60%	
10/13/20 11:13	FG	0.5	21.4	21.2	-1%	0.000	0.50	21.2	-0.73%	
11/5/20 10:10	FG	0.54	22	22.9	4%	0.000	0.54	22.9	4.30%	
12/7/20 11:02	FG	0.43	17.5	18.3	5%	0.000	0.43	18.3	4.55%	
1/21/21 13:36	FG	0.49	18.7	20.8	11%	-0.030	0.46	19.6	4.57%	
2/22/21 13:15	FG	0.49	20.7	20.8	1%	0.000	0.49	20.8	0.58%	
3/16/21 10:04	FG	0.64	25.4	27.3	7%	-0.015	0.63	26.6	4.76%	
4/13/21 11:45	FG	0.61	25.5	26.0	2%	0.000	0.61	26.0	1.80%	
5/19/21 13:00	FG	0.52	20.8	22.1	6%	-0.010	0.51	21.7	4.17%	
6/9/21 14:15	FG	0.56	21.1	23.8	13%	-0.039	0.52	22.1	4.91%	
7/8/21 9:07	FG	0.41	17.8	17.5	-2%	0.000	0.41	17.5	-1.90%	
8/4/21 11:27	FG	0.44	19	18.7	-2%	0.000	0.44	18.7	-1.50%	
9/1/21 12:27	FG	0.47	20.1	20.0	-1%	0.000	0.47	20.0	-0.62%	
10/18/21 12:00	FG	0.38	15.2	16.2	7%	-0.007	0.37	15.9	4.78%	
11/1/21 12:04	FG	0.51	20	21.7	8%	-0.016	0.49	21.0	4.94%	
12/8/21 10:46	FG	0.49	19.8	20.8	5%	-0.001	0.49	20.8	4.93%	

Table C5. Surface Water Station SS-06G Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comment(s)
8/31/2005 09:48	FG	0.53	7.8	12.0	53.46%	0	0.53	12.0	53.46%	
9/20/2005 10:37	FG	0.82	10.98	21.1	91.71%	0	0.82	21.1	91.71%	
10/25/2005 09:45	FG	0.58	10.54	13.4	26.94%	0	0.58	13.4	26.94%	
11/22/2005 09:15	FG	0.6	13.03	14.0	7.21%	0	0.6	14.0	7.21%	
12/13/2005 11:40	FG	0.58	9.92	13.4	34.88%	0	0.58	13.4	34.88%	
1/25/2006 09:15	FG	0.56	10.2	12.8	25.59%	0	0.56	12.8	25.59%	
2/2/2006 00:00	FG	0.89	21.8	23.6	8.03%	0	0.89	23.6	8.03%	
3/2/2006 10:19	FG	0.9	21.8	23.9	9.72%	0	0.9	23.9	9.72%	
4/21/2006 09:52	FG	1.2	34	36.2	6.32%	0	1.2	36.2	6.32%	
6/1/2006 11:28	FG	0.95	24.5	25.8	5.31%	0	0.95	25.8	5.31%	
7/18/2006 09:53	FG	0.53	20.2	12.0	-40.74%	0	0.53	12.0	-40.74%	Flow gauged and recorded in the field appears to be in error. Flow calcs verified by T. Donovan. However, it is improbable that the value is correct. Based on the stage discharge relationship, flow should have been approx 10 cfs.
8/24/2006 09:14	FG	0.47	9.1	10.4	13.85%	0	0.47	10.4	13.85%	
9/12/2006 12:45	FG	0.5	10.7	11.2	4.30%	0	0.5	11.2	4.30%	
10/25/2006 12:21	FG	0.66	16.2	15.8	-2.59%	0	0.66	15.8	-2.59%	
11/9/2006 12:41	FG	0.74	17.4	18.3	5.34%	0	0.74	18.3	5.34%	
12/7/2006 10:50	FG	0.68	14.5	16.4	13.10%	0	0.68	16.4	13.10%	
1/9/2007 13:00	FG	0.62	12.4	14.6	17.42%	0	0.62	14.6	17.42%	
2/23/2007 10:45	FG	1.61	14.1	56.6	301.06%	0	1.61	56.6	301.06%	Stream slightly turbid as sampling continues. Attributed to flow from MTST. Stage-flow from 11:00.
3/12/2007 15:29	FG	1.62	56.4	57.1	1.24%	0	1.62	57.1	1.24%	
4/13/2007 11:05	FG	0.73	16.7	18.0	7.78%	0	0.73	18.0	7.78%	
4/27/2007 10:55	FG	0.9	21.8	23.9	9.72%	0	0.9	23.9	9.72%	
5/9/2007 10:35	FG	0.85	19.65	22.1	12.52%	0	0.85	22.1	12.52%	Stage/Flow taken 11:10
5/31/2007 10:38	FG	1.15	33.4	34.0	1.68%	0	1.15	34.0	1.68%	Stage/Flow taken 12:50
6/14/2007 12:05	FG	1.3	41	40.7	-0.63%	0	1.3	40.7	-0.63%	
6/20/2007 11:10	FG	0.95	29.5	25.8	-12.54%	0	0.95	25.8	-12.54%	
7/2/2007 10:00	FG	0.59	14.9	13.7	-8.19%	0	0.59	13.7	-8.19%	
8/21/2007 10:40	FG	0.55	12.7	12.5	-1.34%	0	0.55	12.5	-1.34%	
9/27/2007 14:12	FG	0.65	17.4	15.5	-11.09%	0	0.65	15.5	-11.09%	
10/24/2007 11:15	FG	0.68	17.7	16.4	-7.34%	0	0.68	16.4	-7.34%	Stage/Flow time 11:35
12/7/2007 11:20	FG	0.6	14.7	14.0	-4.97%	0	0.6	14.0	-4.97%	
1/10/2008 11:45	FG	0.54	12.4	12.3	-1.21%	0	0.54	12.3	-1.21%	Stage/flow taken at 12:05. Sampling crew read sg of 0.60 ft

Table C5. Surface Water Station SS-06G Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comment(s)
2/29/2008 10:30	FG	0.59	13.8	13.7	-0.87%	0	0.59	13.7	-0.87%	
3/28/2008 15:38	FG	0.65	15.6	15.5	-0.83%	0	0.65	15.5	-0.83%	
4/11/2008 11:10	FG	0.66	13.3	15.8	18.65%	0	0.66	15.8	18.65%	
4/15/2008 17:48	FG	1.47	43.1	49.1	13.94%	0	1.47	49.1	13.94%	
5/2/2008 10:40	FG	0.94	24.8	25.4	2.50%	0	0.94	25.4	2.50%	
6/3/2008 12:27	FG	1.64	50.3	58.2	15.73%	0	1.64	58.2	15.73%	This is questionable. Seems too low compared to upstream site. Use with caution
6/19/2008 11:30	FG	1.43	51.5	47.1	-8.60%	0	1.43	47.1	-8.60%	
7/1/2008 09:30	FG	1	29.1	27.8	-4.64%	0	1	27.8	-4.64%	
7/9/2008 09:55	FG	0.89	22.6	23.6	4.20%	0	0.89	23.6	4.20%	Staff gage reading is questionable, use with caution
8/8/2008 09:00	FG	0.59	13.1	13.7	4.43%	0	0.59	13.7	4.43%	
9/26/2008 10:53	FG	0.55	14.2	12.5	-11.76%	0	0.55	12.5	-11.76%	
10/15/2008 10:35	FG	0.78	16.8	19.7	17.08%	0	0.78	19.7	17.08%	
11/6/2008 10:32	FG	0.81	17.2	20.7	20.35%	0	0.81	20.7	20.35%	
12/11/2008 10:00	FG	0.64	16	15.2	-5.25%	0	0.64	15.2	-5.25%	
1/22/2009 10:45	FG	0.51	12.8	11.4	-10.70%	0.03	0.54	12.3	-4.30%	Stage/flow measurement started at 1053
2/18/2009 13:28	FG	0.5	12.1	11.2	-7.77%	0.015	0.515	11.6	-4.46%	
4/16/2009 16:00	FG	0.87	24.8	22.8	-7.98%	0.02	0.89	23.6	-5.04%	SG reading is +-0.03 ft
4/21/2009 09:45	FG	1.22	38.6	37.1	-4.02%	0	1.22	37.1	-4.02%	
5/21/2009 10:30	FG	1.27	36.3	39.3	8.37%	-0.02	1.25	38.4	5.81%	
6/5/2009 12:07	FG	1.03	29.1	28.9	-0.55%	0	1.03	28.9	-0.55%	Supplemental elevated flow measurement
6/29/2009 09:57	FG	0.83	21.5	21.4	-0.47%	0	0.83	21.4	-0.47%	
7/21/2009 09:44	FG	0.66	14.6	15.8	8.08%	-0.015	0.645	15.3	4.93%	Staff gage = +-0.02 ft
8/27/2009 09:55	FG	0.6	13.5	14.0	3.48%	0	0.6	14.0	3.48%	
9/23/2009 10:05	FG	0.64	14.8	15.2	2.43%	0	0.64	15.2	2.43%	
10/22/2009 10:15	FG	0.98	25.6	27.0	5.31%	0	0.98	27.0	5.31%	
11/18/2009 11:11	FG	0.89	25.5	23.6	-7.65%	0.02	0.91	24.3	-4.75%	
12/16/2009 10:26	FG	0.76	20.3	19.0	-6.45%	0.01	0.77	19.3	-4.78%	
12/16/2009 11:20	FG	0.65	14.7	15.5	5.24%	0	0.65	15.5	5.24%	At 10:26, sg = 0.76 ft, flow =20.2 cfs, at sampling, sg =.70 ft.
2/24/2010 10:15	FG	0.56	11.9	13.1	10.17%	-0.04	0.52	12.5	4.62%	
4/16/2010 09:45	FG	0.92	26.7	22.9	-14.34%	0.065	0.985	25.4	-5.06%	
4/23/2010 16:14	FG	1.19	38.4	34.6	-9.87%	0.04	1.23	36.7	-4.48%	SG is +-0.02 ft
5/17/2010 10:12	FG	0.94	24	23.6	-1.63%	0	0.94	23.6	-1.63%	
6/3/2010 15:17	FG	1.75	63.5	71.1	11.89%	-0.06	1.69	66.4	4.52%	Stage +- 0.03 ft.
6/4/2010 11:54	FG	1.66	66.5	64.1	-3.62%	0	1.66	64.1	-3.62%	Stage +- 0.04 ft.
6/8/2010 10:30	FG	1.54	52.7	55.5	5.28%	-0.01	1.53	54.8	3.97%	Stage +-0.03, flow very turbulent flow measurement poor +-10%.

Table C5. Surface Water Station SS-06G Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comment(s)
6/16/2010 12:00	FG	2.732	198	174.3	-11.96%	0	2.732	174.3	-11.96%	Flow from USGS, stage from 12:00 pm TREC IRE, used for upper end calibration
6/23/2010 10:03	FG	1.65	61.5	63.4	3.01%	0	1.65	63.4	3.01%	Stage +/- 0.04 flow very turbulent flow measurement poor +-10%.
7/7/2010 10:45	FG	1.16	37	33.1	-10.49%	0.045	1.205	35.4	-4.38%	Stage +- 0.03 ft flow measurement poor.
7/16/2010 13:12	FG	0.79	20.2	18.6	-8.07%	0.03	0.82	19.5	-3.51%	
9/15/2010 09:55	FG	0.51	17.1	17.5	2.57%	0	0.51	17.5	2.57%	
12/16/2010 11:00	FG	0.52	16.7	18.2	9.22%	-0.02	0.5	16.8	0.84%	Stage +-0.01 ft. Poor flow measurement. Water turbid from beaver dam removal on 12/15/10.
2/3/2011 10:25	FG	0.43	13.5	12.2	-9.63%	0.01	0.44	12.8	-4.89%	
4/6/2011 10:32	FG	0.67	30.1	29.8	-1.03%	0	0.67	29.8	-1.03%	
5/18/2011 13:49	FG	1.12	72.8	75.5	3.76%	0	1.12	75.5	3.76%	Estimated flow, excluded from regression
6/12/2011 18:00	FG	1.998	200	212.8	6.42%	0	1.998	212.8	6.42%	SS-04 = 179 cfs, SS-07 = 208 cfs; Reduced 8 cfs for SS-STP
6/28/2011 10:40	FG	1.1	54.8	73.2	33.49%	-0.15	0.95	56.3	2.74%	
7/6/2011 10:30	FG	0.75	37.1	36.7	-1.08%	0	0.75	36.7	-1.08%	
7/12/2011 10:45	FG	0.62	31.3	31.9	1.76%	0	0.62	31.9	1.76%	Estimated flow, excluded from regression
7/14/2011 10:00	FG	1.367	92	92.0	0.04%	0	1.367	92.0	0.04%	SS-04 = 73 cfs, SS-07 = 99 cfs, reduced 7 cfs to account for SS-STP
7/19/2011 09:45	FG	0.64	32.5	33.3	2.58%	0	0.64	33.3	2.58%	
9/7/2011 10:53	FG	0.4	15	16.0	6.40%	-0.01	0.39	15.3	1.73%	
12/1/2011 10:40	FG	0.48	21.5	21.6	0.65%	0	0.48	21.6	0.65%	
2/21/2012 10:12	FG	0.4	17.2	16.0	-7.21%	0.01	0.41	16.7	-3.14%	
4/13/2012 13:54	FG	0.74	41.6	40.9	-1.75%	0	0.74	40.9	-1.75%	
4/18/2012 10:41	FG	0.6	32.1	30.4	-5.39%	0.02	0.62	31.9	-0.78%	
5/9/2012 10:27	FG	0.48	21.2	21.6	2.08%	0	0.48	21.6	2.08%	
5/23/2012 10:25	FG	0.44	19.1	18.8	-1.62%	0	0.44	18.8	-1.62%	
6/8/2012 10:11	FG	0.58	31.15	28.9	-7.22%	0.03	0.61	31.1	-0.13%	
6/21/2012 10:10	FG	0.4	15.4	16.0	3.64%	0	0.4	16.0	3.64%	
7/19/2012 10:36	FG	0.47	21	20.9	-0.38%	0	0.47	20.9	-0.38%	
8/10/2012 09:20	FG	0.31	10.5	9.7	-7.62%	0.01	0.32	10.4	-1.05%	
9/6/2012 10:00	FG	0.34	10.83	11.8	8.68%	-0.01	0.33	11.1	2.31%	
10/11/2012 10:18	FG	0.38	13	14.6	11.92%	-0.02	0.36	13.2	1.23%	
11/7/2012 09:45	FG	0.34	10.3	11.8	14.27%	-0.02	0.32	10.4	0.87%	
12/5/2012 10:02	FG	0.4	15.7	16.0	1.66%	0	0.4	16.0	1.66%	
1/22/2013 10:09	FG	0.33	12	11.1	-7.67%	0.01	0.34	11.8	-1.92%	Multiple beaver dams were cleared from SBC between 01/15/13 and 01/18/13. There is still slight turbility remaining from that removal.

Table C5. Surface Water Station SS-06G Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comment(s)
2/7/2013 09:40	FG	0.32	12.3	10.4	-15.53%	0.02	0.34	11.8	-4.31%	
3/19/2013 10:30	FG	0.39	17.1	15.3	-10.76%	0.02	0.41	16.7	-2.57%	
4/12/2013 10:53	FG	0.44	16.2	18.8	15.99%	-0.03	0.41	16.7	2.84%	
5/7/2013 09:55	FG	0.38	13.1	14.6	11.07%	-0.01	0.37	13.9	5.80%	
6/18/2013 10:05	FG	0.41	15.5	16.7	7.48%	-0.01	0.4	16.0	2.97%	
7/10/2013 10:07	FG	0.24	8	4.9	-38.38%	0.04	0.28	7.6	-4.50%	
8/14/2013 10:23	FG	0.29	9.4	8.3	-11.38%	0.02	0.31	9.7	3.19%	
9/11/2013 10:22	FG	0.27	10.6	7.0	-34.34%	0.05	0.32	10.4	-1.98%	
10/17/2013 11:10	FG	0.42	14.3	17.4	21.47%	-0.04	0.38	14.6	1.75%	
11/6/2013 10:15	FG	0.42	15.6	17.4	11.35%	-0.02	0.4	16.0	2.31%	
12/17/2013 10:00	FG	0.32	11	10.4	-5.55%	0	0.32	10.4	-5.55%	
1/21/2014 10:25	FG	0.34	10.6	11.8	11.04%	-0.01	0.33	11.1	4.53%	
2/19/2014 10:26	FG	0.31	11	9.7	-11.82%	0.02	0.33	11.1	0.73%	
3/18/2014 09:35	FG	0.5	20.9	23.1	10.43%	-0.02	0.48	21.6	3.54%	
4/16/2014 09:20	FG	0.6	27	30.4	12.48%	-0.03	0.57	28.2	4.30%	
5/14/2014 10:05	FG	0.86	45.6	50.1	9.96%	-0.03	0.83	47.8	4.82%	
6/10/2014 10:05	FG	0.55	24.8	26.7	7.66%	-0.01	0.54	26.0	4.72%	
7/28/2014 09:40	FG	0.32	10.8	10.4	-3.80%	0	0.32	10.4	-3.80%	
8/28/2014 09:45	FG	0.49	19.4	22.4	15.26%	-0.03	0.46	20.2	4.18%	
9/25/2014 09:55	FG	0.37	13.8	13.9	0.43%	0	0.37	13.9	0.43%	
10/14/2014 09:10	FG	0.51	23.1	23.8	3.03%	0	0.51	23.8	3.03%	
11/4/2014 10:30	FG	0.47	19.8	20.9	5.66%	-0.01	0.46	20.2	2.07%	
12/9/2014 09:55	FG	0.4	14.7	16.0	8.57%	-0.01	0.39	15.3	3.81%	
1/20/2015 10:00	FG	0.38	15.5	14.6	-6.13%	0.01	0.39	15.3	-1.55%	
2/18/2015 09:15	FG	0.4	17	16.0	-6.12%	0.01	0.41	16.7	-2.00%	
3/10/2015 09:40	FG	0.4	16.4	16.0	-2.68%	0	0.4	16.0	-2.68%	
4/13/2015 10:00	FG	0.42	17.8	17.4	-2.42%	0	0.42	17.4	-2.42%	
5/4/2015 09:50	FG	0.45	21.4	19.5	-8.88%	0.02	0.47	20.9	-2.24%	
6/15/2015 09:45	FG	0.47	19.7	20.9	6.19%	-0.01	0.46	20.2	2.59%	
7/31/2015 10:05	FG	0.5	19	23.1	21.47%	-0.05	0.45	19.5	2.63%	
8/18/2015 09:30	FG	0.33	10.3	11.1	7.57%	-0.01	0.32	10.4	0.87%	
9/2/2015 10:00	FG	0.33	10.7	11.1	3.55%	0	0.33	11.1	3.55%	
10/22/2015 10:35	FG	0.38	15.9	14.6	-8.49%	0.01	0.39	15.3	-4.03%	
11/19/2015 10:00	FG	0.43	17.5	18.1	3.31%	0	0.43	18.1	3.31%	
12/15/2015 09:40	FG	0.39	15.5	15.3	-1.55%	0	0.39	15.3	-1.55%	
1/12/2016 09:50	FG	0.37	14.7	13.9	-5.71%	0.01	0.38	14.6	-1.02%	
2/25/2016 09:25	FG	0.44	12.4	18.8	51.53%	-0.09	0.35	12.5	0.48%	

Table C5. Surface Water Station SS-06G Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comment(s)
3/16/2016 09:10	FG	0.43	17.4	18.1	3.91%	0	0.43	18.1	3.91%	
4/11/2016 09:40	FG	0.6	29.5	30.4	2.95%	0	0.6	30.4	2.95%	
6/1/2016 09:50	FG	0.56	23.9	27.4	14.77%	-0.04	0.52	24.5	2.59%	
6/21/2016 09:35	FG	0.46	18	20.2	12.28%	-0.02	0.44	18.8	4.39%	
7/19/2016 09:55	FG	0.26	9.1	6.3	-30.99%	0.04	0.3	9.0	-0.99%	
8/16/2016 09:20	FG	0.22	7.6	3.6	-52.89%	0.06	0.28	7.6	0.53%	
9/20/2016 09:47	FG	0.31	9.3	9.7	4.30%	0	0.31	9.7	4.30%	
10/13/2016 10:00	FG	0.43	15.4	18.1	17.40%	-0.03	0.4	16.0	3.64%	
11/8/2016 09:35	FG	0.4	13.1	16.0	21.83%	-0.04	0.36	13.2	0.46%	
12/13/2016 10:00	FG	0.34	10.9	11.8	7.98%	-0.01	0.33	11.1	1.65%	
1/19/2017 10:15	FG	0.31	10.4	9.7	-6.73%	0.003	0.313	9.9	-4.81%	
2/27/2017 10:00	FG	0.36	13.4	13.2	-1.79%	0	0.36	13.2	-1.79%	
3/23/2017 09:20	FG	0.7	34	37.8	11.26%	-0.03	0.67	35.6	4.65%	
4/11/2017 09:20	FG	0.51	23	23.8	3.48%	0	0.51	23.8	3.48%	
5/30/2017 09:50	FG	0.67	33.1	35.6	7.49%	-0.02	0.65	34.1	2.96%	
6/21/2017 09:35	FG	0.51	23.7	23.8	0.42%	0	0.51	23.8	0.42%	
7/20/2017 10:10	FG	0.32	10.4	10.4	-0.10%	0	0.32	10.4	-0.10%	
8/8/2017 09:45	FG	0.28	8.7	7.6	-12.18%	0.01	0.29	8.3	-4.25%	
9/7/2017 09:25	FG	0.3	9.5	9.0	-5.16%	0.01	0.31	9.7	2.11%	
10/12/2017 09:40	FG	0.41	14.7	16.7	13.33%	-0.02	0.39	15.3	3.81%	
11/8/2017 10:00	FG	0.37	13.6	13.9	1.91%	0	0.37	13.9	1.91%	
12/7/2017 10:00	FG	0.37	13.7	13.9	1.17%	0	0.37	13.9	1.17%	
1/18/2018 09:45	FG	0.37	13.5	13.9	2.67%	0	0.37	13.9	2.67%	
2/23/2018 10:45	FG	0.43	14.6	18.1	23.84%	-0.04	0.39	15.3	4.52%	
3/20/2018 09:40	FG	0.48	19.1	21.6	13.30%	-0.03	0.45	19.5	2.09%	
4/25/2018 10:20	FG	0.84	41.9	48.6	15.94%	-0.06	0.78	43.9	4.84%	
5/29/2018 10:51	FG	1.05	61.3	65.3	6.56%	-0.02	1.03	63.7	3.90%	
6/13/2018 09:57	FG	0.91	49.5	54.1	9.23%	-0.03	0.88	51.7	4.46%	
7/11/2018 09:40	FG	0.66	33.5	34.8	3.97%	0	0.66	34.8	3.97%	
8/15/2018 11:44	FG	0.38	15	14.6	-3.00%	0	0.38	14.6	-3.00%	
9/25/2018 10:16	FG	0.52	23.1	24.5	6.15%	-0.01	0.51	23.8	3.03%	
10/29/2018 10:20	FG	0.5	21.7	23.1	6.36%	-0.01	0.49	22.4	3.04%	
11/14/2018 09:47	FG	0.46	19	20.2	6.37%	-0.01	0.45	19.5	2.63%	
12/3/2018 09:37	FG	0.4	16.9	16.0	-5.56%	0.01	0.41	16.7	-1.42%	
1/9/2019 09:30	FG	0.38	15.2	14.6	-4.28%	0	0.38	14.6	-4.28%	
2/12/2019 10:17	FG	0.35	13.7	12.5	-9.05%	0.01	0.36	13.2	-3.94%	
3/11/2019 10:11	FG	0.32	12.7	10.4	-18.19%	0.03	0.35	12.5	-1.89%	

Table C5. Surface Water Station SS-06G Rating Table

Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comment(s)
4/17/2019 10:45	FG	0.72	44.1	39.4	-10.77%	0.04	0.76	42.4	-3.88%	
5/14/2019 10:16	FG	0.66	38.5	34.8	-9.53%	0.03	0.69	37.1	-3.69%	
6/6/2019 10:30	FG	0.71	38.7	38.6	-0.28%	0	0.71	38.6	-0.28%	
7/10/2019 10:13	FG	0.54	28.1	26.0	-7.58%	0.01	0.55	26.7	-4.98%	
8/5/2019 11:05	FG	0.36	13.4	13.2	-1.79%	0	0.36	13.2	-1.79%	SS-06G staff gauge inaccessible during measurement. Reported stage from continual stage
9/23/2019 09:55	FG	0.42	14.1	17.4	23.19%	-0.04	0.38	14.6	3.19%	SS-06G staff gauge inaccessible during measurement. Reported stage from continual stage
10/7/2019 10:30	FG	0.64	34.7	33.3	-3.95%	0	0.64	33.3	-3.95%	
11/5/2019 09:45	FG	0.61	30.2	31.1	3.01%	0	0.61	31.1	3.01%	SS-06G staff gauge inaccessible during measurement. Reported stage from continual stage
12/13/2019 09:36	FG	0.56	29.2	27.4	-6.06%	0.01	0.57	28.2	-3.56%	
1/27/2020 10:15	FG	0.5	22.1	23.1	4.43%	0	0.5	23.1	4.43%	
2/21/2020 09:36	FG	0.52	26.7	24.5	-8.16%	0.02	0.54	26.0	-2.73%	
3/5/2020 09:41	FG	0.5	22.5	23.1	2.58%	-0.02	0.48	21.6	-3.82%	
4/30/2020 11:40	FG	0.56	30.5	27.4	-10.07%	0.03	0.59	29.6	-2.85%	
5/27/2020 10:11	FG	0.65	37.4	34.1	-8.88%	0.02	0.67	35.6	-4.87%	
6/15/2020 10:00	FG	0.64	35.2	33.3	-5.31%	0.01	0.65	34.1	-3.18%	
7/7/2020 09:47	FG	0.76	45.3	42.4	-6.42%	0.01	0.77	43.2	-4.72%	
8/4/2020 09:52	FG	0.44	21	18.8	-10.57%	0.02	0.46	20.2	-3.76%	
9/1/2020 09:26	FG	0.49	20	22.4	11.80%	-0.04	0.45	19.5	-2.50%	
10/13/2020 10:26	FG	0.52	24.3	24.5	0.91%	0	0.52	24.5	0.91%	
11/5/2020 09:15	FG	0.53	26.1	25.3	-3.26%	0	0.53	25.3	-3.26%	
12/7/2020 10:06	FG	0.43	19	18.1	-4.84%	0	0.43	18.1	-4.84%	
1/21/2021 10:55	FG	0.46	20.9	20.2	-3.30%	0	0.46	20.2	-3.30%	
2/22/2021 10:17	FG	0.47	23.8	20.9	-12.10%	0.024	0.494	22.6	-4.87%	
3/16/2021 09:10	FG	0.57	29	28.2	-2.90%	0	0.57	28.2	-2.90%	
4/13/2021 09:33	FG	0.55	28.7	26.7	-6.97%	0.008	0.558	27.3	-4.95%	
5/19/2021 10:05	FG	0.53	22.7	25.3	11.23%	-0.02	0.51	23.8	4.85%	
6/9/2021 12:43	FG	0.55	27.1	26.7	-1.48%	0	0.55	26.7	-1.48%	
7/8/2021 07:11	FG	0.39	16.9	15.3	-9.70%	0.012	0.402	16.1	-4.73%	
8/4/2021 08:35	FG	0.45	23.5	19.5	-17.02%	0.03	0.48	21.6	-7.91%	
9/1/2021 10:00	FG	0.47	19.9	20.9	5.13%	-0.001	0.469	20.9	4.77%	
10/18/2021 10:25	FG	0.4	16.8	16.0	-5.00%	0	0.4	16.0	-5.00%	
11/1/2021 09:50	FG	0.485	22.91	22.0	-3.97%	0.002	0.487	22.1	-3.36%	
12/8/2021 10:07	FG	0.48	20.7	21.6	4.54%	0	0.48	21.6	4.54%	

Table C6. Surface Water Station MSD-3A Rating Table

Opportunistic Storm Flow Monitoring	Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
The 2006 - 2009 data set has produced the expected curve, so the resulting stage-discharge relationship has been applied to the entire data set.											
	8/2/06 11:30 AM		0.1	0.3	0.37	15.25%		0.06	0.37	15.25%	Collected by Pioneer Technical Services
	8/24/06 1:37 PM		0.1	0.3	0.37	22.93%		0.06	0.37	22.93%	$Q = 4.6863x^2 + 5.0558x - 0.1493$ initially applied to 2006 data.
	9/12/06 9:25 AM		0.1	0.3	0.39	28.48%	-0.03	0.08	0.36	20.34%	
	9/12/06 5:00 PM		0.1	0.3	0.37	24.18%	-0.02	0.08	0.36	20.34%	
*	9/15/06 4:08 PM		0.5	3.3	3.77	14.23%	-0.02	0.46	3.46	4.89%	
*	9/15/06 4:35 PM		0.5	3.8	4.42	16.35%	-0.03	0.49	3.93	3.37%	Stage was 0.50 at start (1635) and 0.54 at end (1642).
*	9/15/06 5:49 PM		0.4	2.8	3.17	13.05%	-0.02	0.42	2.88	2.94%	
*	9/15/06 6:17 PM		0.4	2.7	2.36	-12.77%	0.02	0.40	2.61	-3.26%	
	10/25/06 9:02 AM		0.1	0.3	0.36	20.82%		0.07	0.36	20.82%	
*	3/6/07 5:35 PM		0.9	12.3	11.94	-2.94%	0	0.88	11.94	-2.94%	
*	3/6/07 5:55 PM		0.8	11.2	10.99	-1.86%	0	0.84	10.99	-1.86%	
*	3/6/07 6:02 PM		0.8	10.7	10.76	0.55%	0	0.83	10.76	0.55%	
*	3/6/07 6:10 PM		0.8	10.0	10.07	0.66%	0	0.80	10.07	0.66%	
*	3/7/07 3:25 PM		0.7	7.8	7.03	-9.70%	0.02	0.68	7.44	-4.44%	Collected by Pioneer Technical Services
*	3/7/07 4:51 PM		0.7	8.4	8.29	-1.31%	0	0.72	8.29	-1.31%	Silver Lake flow is on.
	4/27/07 3:10 PM		0.1	0.5	0.40	-10.44%	0.01	0.13	0.43	-5.49%	Stage/Flow taken 15:41
	5/9/07 3:41 PM		0.0	0.4	0.40	-0.93%	0	0.04	0.40	-0.93%	
*	5/22/07 10:31 AM		0.5	4.6	4.85	5.46%	0	0.55	4.85	5.46%	Stage/Flow taken 16:20.
	5/31/07 4:20 PM		0.1	0.4	0.36	-9.38%	0	0.07	0.36	-9.38%	
*	6/6/07 12:31 PM		1.1	17.3	18.02	4.14%	0	1.13	18.02	4.14%	Stage was 1.16 ft when gaging began (1231) and 1.09 feet when completed (1242).
	7/2/07 2:08 PM		0.1	0.4	0.38	-7.31%	0	0.05	0.38	-7.31%	
	9/17/07 1:00 PM		0.2	0.5	0.48	-1.33%	0	0.15	0.48	-1.33%	Supplemental flow. It seemed like a stage shift was occurring.
	9/27/07 10:35 AM		0.1	0.5	0.45	-11.35%	0.01	0.15	0.48	-5.20%	Q = 12.723x2 + 1.8571x + 0.0535 initially applied to 2007 data.
	4/29/08 2:57 PM		0.1	0.4	0.37	-6.86%	0	0.10	0.37	-6.86%	Q = 12.349x2 + 2.1596x + 0.0277 initially applied to 2008 data
*	6/4/08 3:22 PM		1.2	19.9	19.65	-1.24%	0	1.19	19.65	-1.24%	
	3/30/09 5:10 PM		0.4	0.8	2.36	194.40%	-0.16	0.22	0.83	3.35%	Stage dropped from 0.38 to 0.37 ft while measuring flow. Q = -7.8457x3 + 26.422x2 - 4.2984x + 0.5551

Table C6. Surface Water Station MSD-3A Rating Table

Opportunistic Storm Flow Monitoring	Date/Time Taken	Sample Type	Field Measured Stage (ft)	Field Measured Q (cfs)	Rating Curve Q (cfs)	Residual	Shift (ft)	Adjusted Stage (ft)	Adjusted Q (cfs)	Adjusted Residual	Comments
	7/8/09 2:00 PM		0.4	3.5	3.17	-9.56%	0.02	0.46	3.46	-1.10%	Stage was 0.41 at start, 0.46 at finish
	7/8/09 2:07 PM		0.5	4.0	3.61	-9.65%	0.02	0.49	3.93	-1.80%	stage was 0.46 at start, 0.47 at finish
	7/8/09 2:16 PM		0.5	4.6	3.93	-14.61%	0.03	0.52	4.42	-3.89%	stage was 0.48 at start, 0.49 at finish
	7/8/09 3:45 PM		0.2	1.5	0.71	-52.86%	0.1	0.30	1.47	-2.06%	
	8/6/09 4:35 PM		2.1	35.4	35.38	-0.05%	0	2.10	35.38	-0.05%	Stage was 2.16 ft at start, 2.0 ft at finish. Both readings +-.05 ft. Use this measurement as estimate only in stage-discharge relationship. Q = -7.7324x3 + 26.01x2 - 3.9162x + 0.5118
*	5/18/10 3:58 PM	FG	0.62	0.9	0.7	-17.78%	0.03	0.65	0.9	-4.44%	Stage was 0.58 ft at start and 0.66 ft at finish.
*	5/18/10 4:05 PM	FG	0.69	1	1.0	3.00%		0.69	1.0	3.00%	Stage was 0.66 ft at start and 0.72 ft at finish.
*	5/18/10 4:07 PM	FG	0.76	1.3	1.4	6.92%	-0.01	0.75	1.3	2.31%	Stage was 0.72 ft at start and 0.80 ft at finish.
*	5/18/10 4:13 PM	FG	0.81	1.5	1.7	12.00%	-0.02	0.79	1.6	4.00%	Stage was 0.80 ft at start and 0.82 ft at finish.
*	5/28/10 3:11 PM	FG	1.22	5.3	5.9	11.51%	-0.03	1.19	5.5	3.40%	Stage was 1.21 ft at start and 1.22 ft at finish.
*	6/16/10 4:59 PM	FG	1.62	16	14.1	-11.88%	0.04	1.66	15.2	-5.00%	Stage was 1.66 ft at start, 1.58 ft at finish.
	6/2/11 11:23 AM	FG	1.07	3.5	3.5	-0.29%	0.01	1.08	3.6	2.86%	
	6/2/11 11:36 AM	FG	1.01	3.1	2.9	-8.06%	0.025	1.04	3.1	0.32%	
	6/2/11 11:49 AM	FG	0.98	2.4	2.6	6.67%	0	0.98	2.6	6.67%	
	6/2/11 12:01 PM	FG	0.94	1.9	2.2	16.84%	-0.025	0.92	2.0	6.32%	
	7/14/11 9:48 AM	FG	1.61	13.3	14.6	9.77%	0	1.61	14.6	9.77%	Piping present between manhole and culvert had been removed
	3/21/12 5:01 PM	FG	1.54	15.3	12.5	-18.30%	0	1.54	12.5	-18.30%	Stage was 1.58 at start and 1.50 at finish
	3/21/12 5:16 PM	FG	1.48	13.6	10.9	-20.07%	0	1.48	10.9	-20.07%	Stage was 1.50 at start and 1.46 at finish
	7/16/12 4:28 PM	FG	2.04	27.4	33.5	22.15%	0	2.04	33.5	22.15%	Stage was 2.20 ft at start of gaging and 1.88 ft at finish of gaging
No field grab samples were obtained from MSD-3A during 2013.											
	3/6/14 9:48 AM	FG	1.88	7.1	25.1	254.08%		1.88	25.1	254.08%	Stage was 1.92 ft at start and 1.84 ft at finish
	3/6/14 12:43 PM	FG	1.67	5.1	16.6	225.49%		1.67	16.6	225.49%	Stage was 1.68 at ft at start and 1.66 ft at finish.
	3/10/14 11:17 AM	FG	0.78	0.8	1.2	43.75%		0.78	1.2	43.75%	Stage was .75 ft to start and .83 ft at finish
	3/10/14 4:46 PM	FG	1.35	7.1	7.9	10.99%	-0.01	1.34	7.7	8.17%	
	3/11/04 4:08 PM	FG	1.06	2.6	3.4	30.00%		1.06	3.4	30.00%	Stage was 1.02 ft to start and 1.10 ft at finish
	3/11/14 4:25 PM	FG	1.11	2.9	4.0	36.90%		1.11	4.0	36.90%	Stage was 1.10 ft at start and 1.12 ft at finish
No field grab samples were obtained at MSD-3A from 2015 to 2021.											

Table C7. BPSOU 2021 Basin Balance

Flow Balance to SS-04 (CFS)

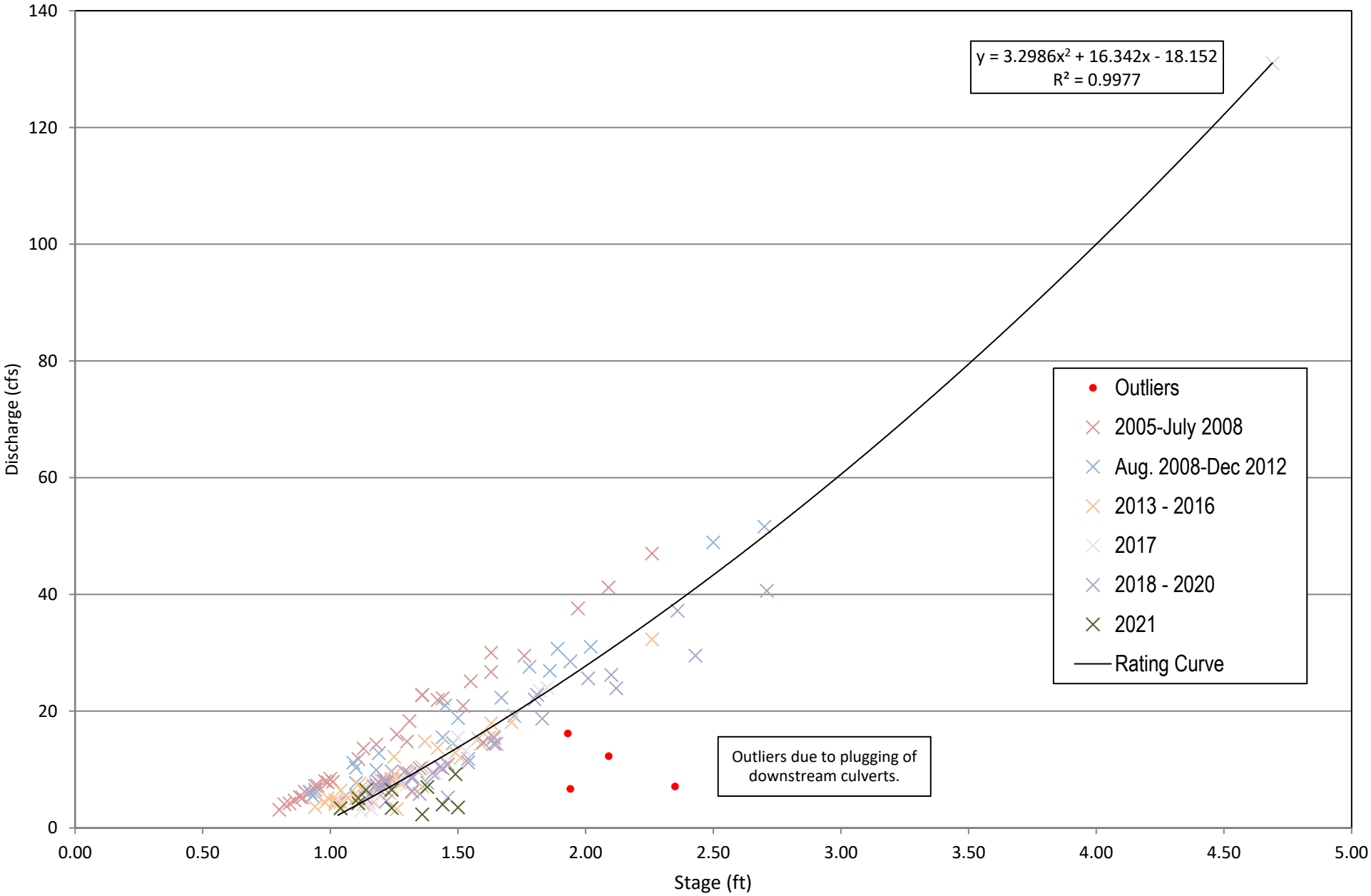
	Initial Flow		Flow Inputs				Final Flow		Residual	
Date	SS-04	SS-04 Time	BMFOU	SS-MPTP	CT-EFS7	SS-STP	SS-07	SS-07 Time	Flow	Percent
1/21/2021	10.9	14:27	10.7	0.6	1.9	5.1	23	9:59	6.2	27%
2/22/2021	10.5	15:36	12.4	0.6	1.9	5.8	25.1	10:10	6.1	24%
3/16/2021	11.1	12:08	13.7	0.6	2.5	5.8	32.2	8:17	1.4	4%
4/13/2021	10.4	12:42	13.8	0.6	1.8	5.4	33.6	9:31	-1.6	-5%
5/19/2021	8.8	14:31	10.9	0.6	1.5	5.3	25.6	9:34	1.6	6%
6/9/2021	9.3	17:26	10.6	0.6	2.1	5.5	24.1	12:34	4.0	17%
7/8/2021	3.8	9:30	12.2	0.6	1.9	5.7	20.5	7:05	3.6	18%
8/4/2021	3.8	12:48	11.7	0.6	2.3	5.8	26.7	9:34	-2.5	-9%
9/1/2021	5.9	13:25	12.0	0.6	2.0	5.7	26.6	9:27	-0.4	-2%
10/18/2021	6.9	15:32	6.3	0.5	2.2	5.5	22.5	9:47	-1.0	-4%
11/1/2021	6.8	13:05	11.9	0.5	2.0	5.5	26.6	9:36	0.1	1%
12/8/2021	7.6	14:00	11.2	0.5	2.1	5.2	27.6	9:45	-1.0	-4%

Flow Balance to SS-05 (CFS)

	Initial Flow		Flow Inputs			Final Flow		Residual	
Date	SS-05	SS-05 Time	SS-MPTP	CT-EFS7	SS-STP	SS-07	SS-07 Time	Flow	Percent
1/21/2021	20.6	14:06	0.6	1.9	5.1	23	9:59	5.2	23%
2/22/2022	23.4	14:50	0.6	1.9	5.8	25.1	10:10	6.6	26%
3/16/2021	28	10:35	0.6	2.5	5.8	32.2	8:17	4.7	14%
4/13/2021	27.6	12:20	0.6	1.8	5.4	33.6	9:31	1.8	5%
5/19/2021	22	13:36	0.6	1.5	5.3	25.6	9:34	3.8	15%
6/9/2021	24.9	16:17	0.6	2.1	5.5	24.1	12:34	9.0	37%
7/8/2021	18.9	9:23	0.6	1.9	5.7	20.5	7:05	6.6	32%
8/4/2021	19.8	12:14	0.6	2.3	5.8	26.7	9:34	1.7	7%
9/1/2021	20.2	13:07	0.6	2.0	5.7	26.6	9:27	1.9	7%
10/18/2021	15.4	14:49	0.5	2.2	5.5	22.5	9:47	1.2	5%
11/1/2021	25.8	12:30	0.5	2.0	5.5	26.6	9:36	7.2	27%
12/8/2021	19.6	13:15	0.5	2.1	5.2	27.6	9:45	-0.2	-1%

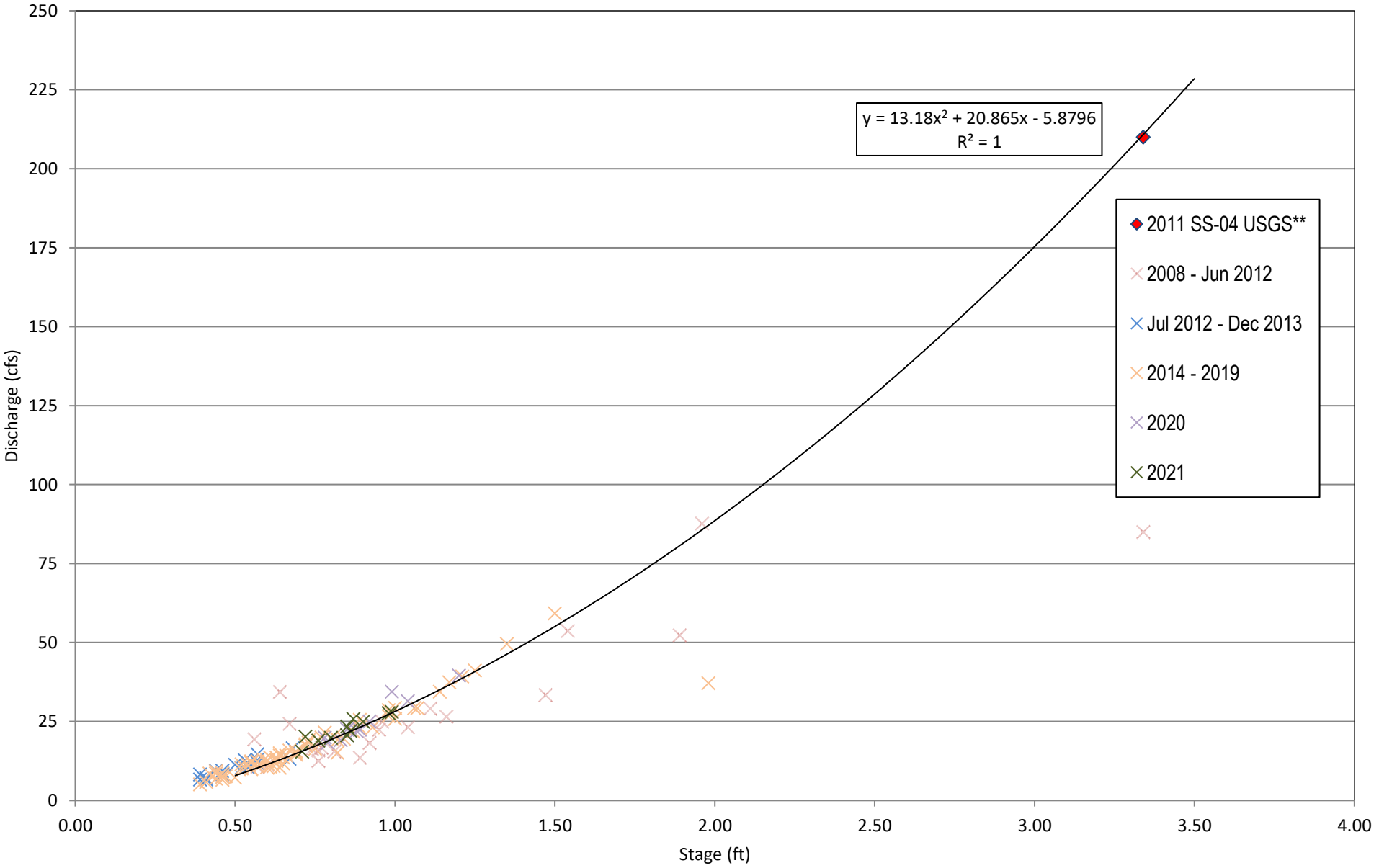
Figures

Figure C1. BPSOU 2021 Rating Curve - SS-01



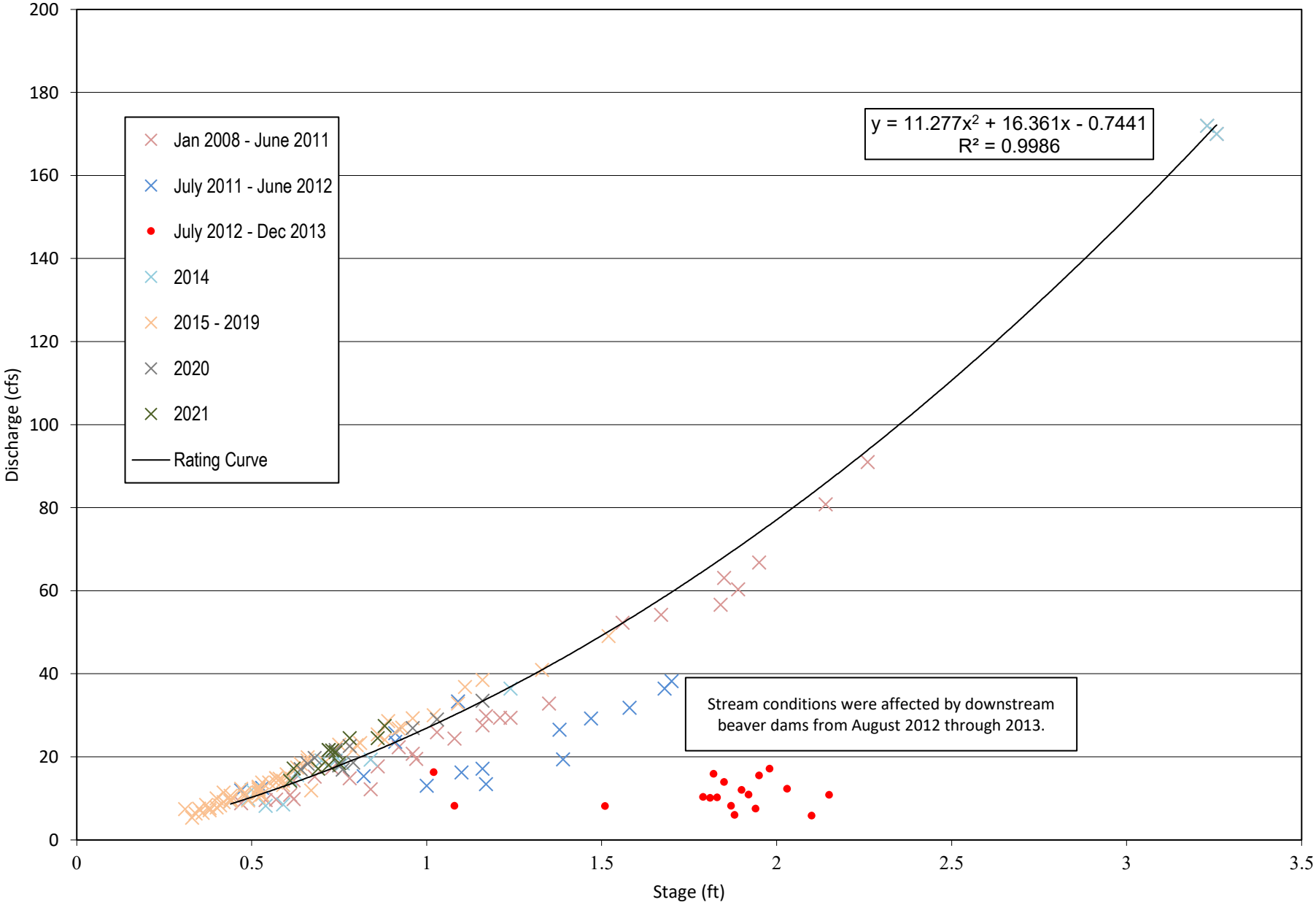
Rating Curve developed from 2017 data.
Note: The rating curve is applicable only for stream conditions unaffected by backwater, ice, debris, scour and other undefined changes to the control.

Figure C2. BPSOU 2021 Rating Curve - SS-05



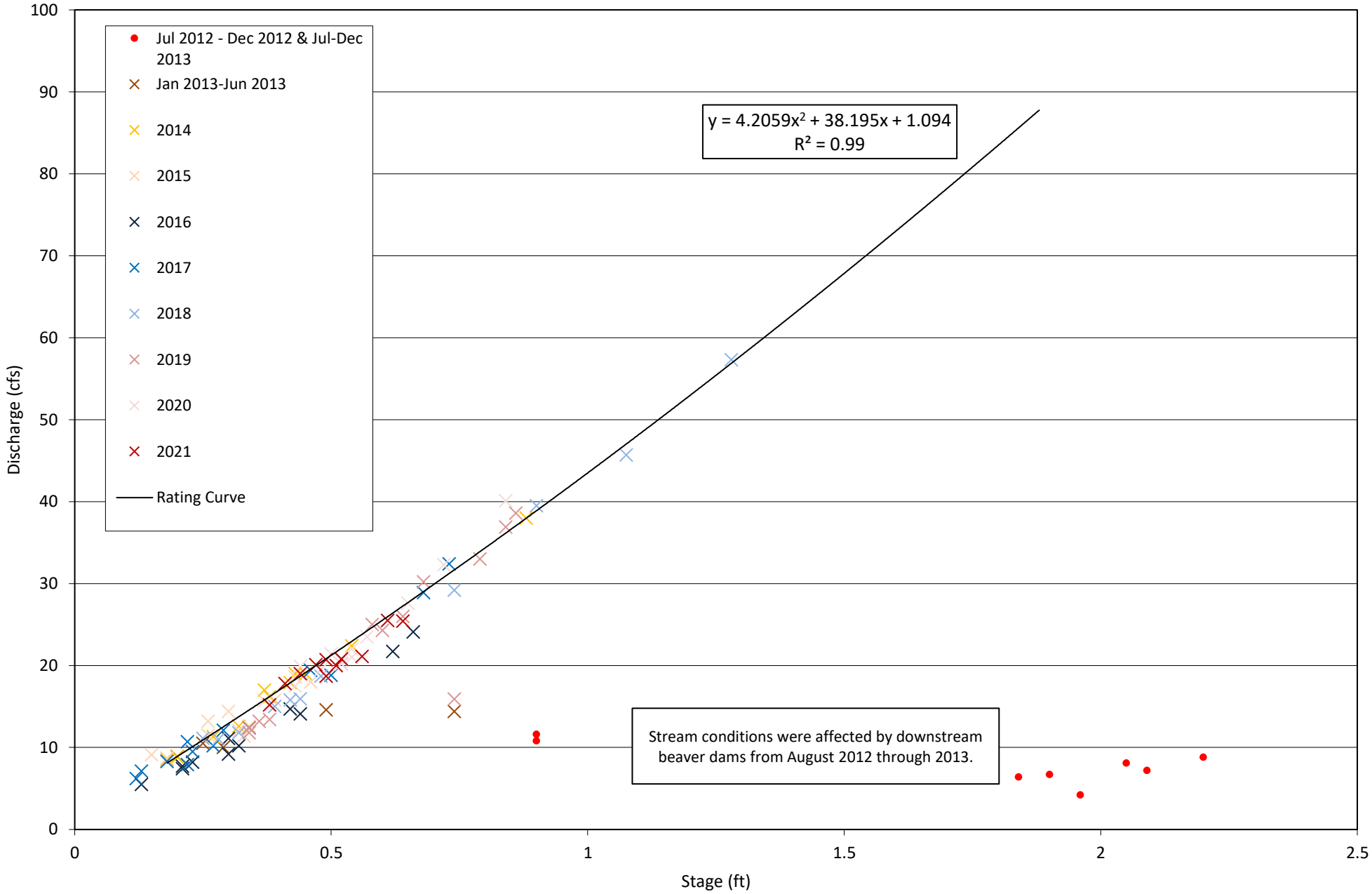
Rating curve developed from November 2010 to December 2011 data.
Note: The rating curve is applicable only for stream conditions unaffected by backwater, ice, debris, scour and other undefined changes to the control.
**USGS data point has been determined using discharge from usgs.gov and stage from TREC IRE data on June 10, 2011 at 8:00 AM

Figure C3. BPSOU 2021 Rating Curve - SS-05A



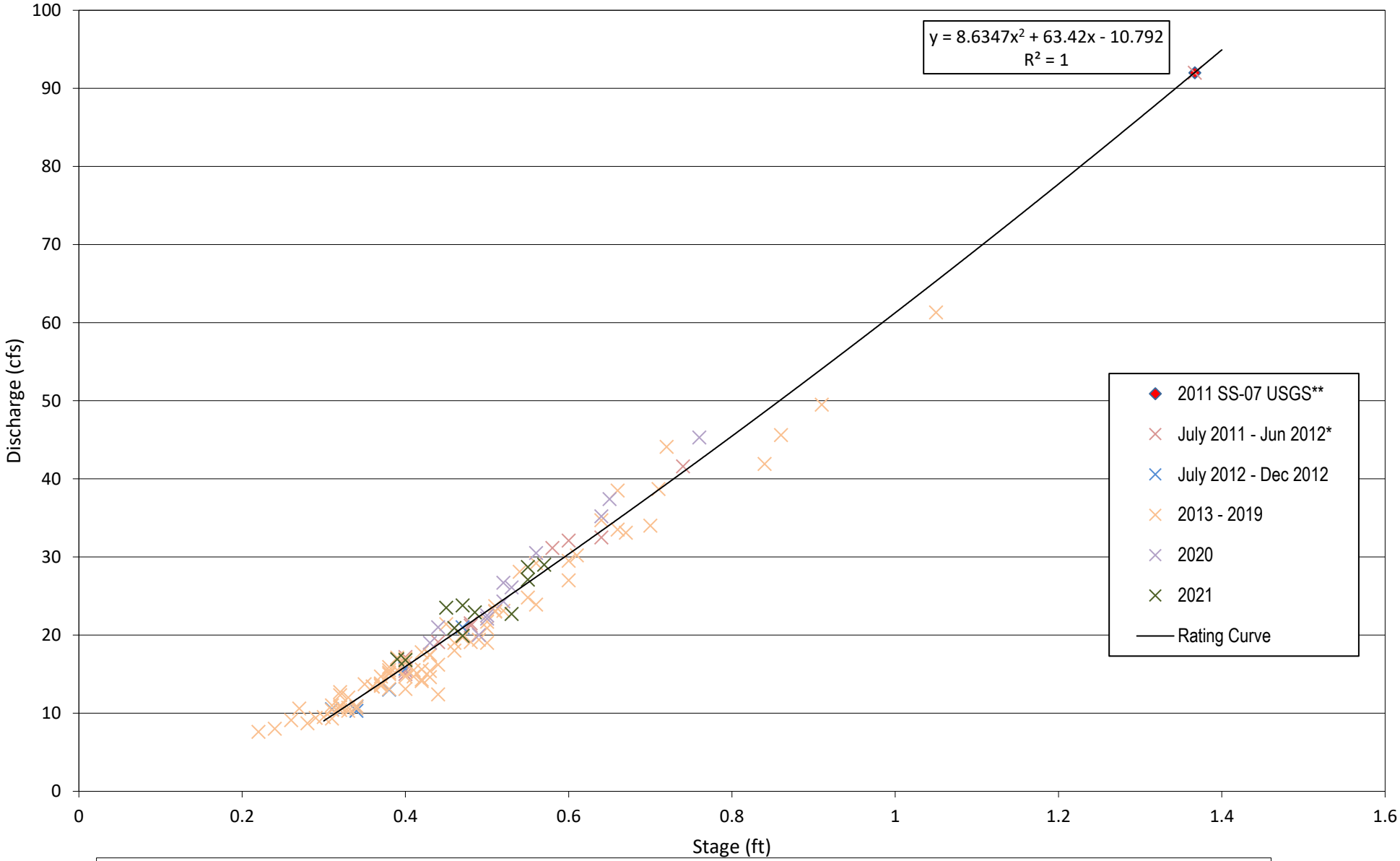
Rating curve developed from January through December 2014 data and from 2010 and 2011 high-flow measurements.
Note: The rating curve is applicable only for stream conditions unaffected by backwater, ice, debris, scour and other undefined changes to the control.

Figure C4. BPSOU 2021 Rating Curve - SS-06A



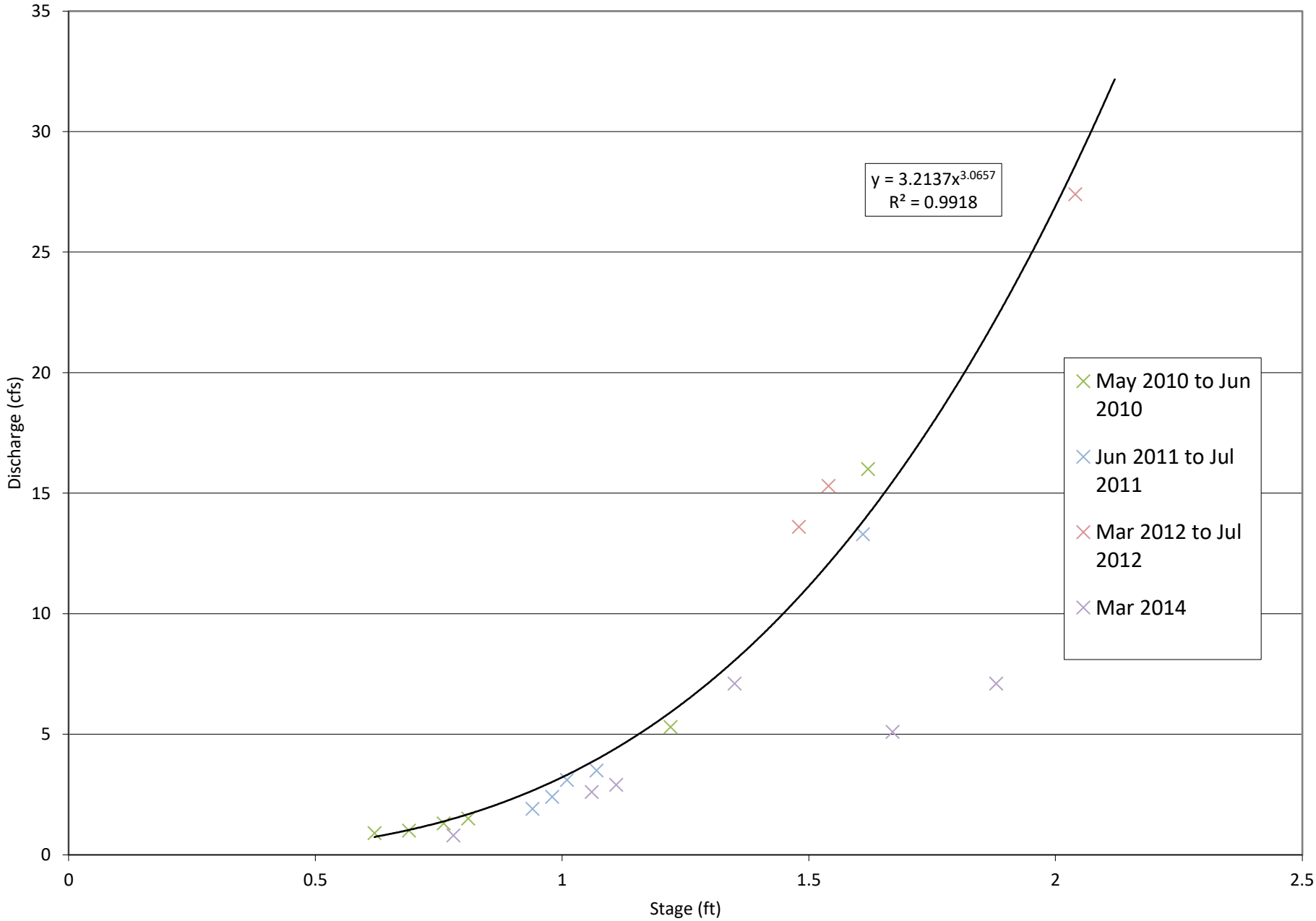
Rating Curve developed from 2014 data.
Note: The rating curve is applicable only for stream conditions unaffected by backwater, ice, debris, scour and other undefined changes to the control.

Figure C5. BPSOU 2021 Rating Curve - SS-06G



Rating Curve developed from July 2011 through April 2012 data.
Note: The rating curve is applicable only for stream conditions unaffected by backwater, ice, debris, scour, and other undefined changes to the control.
**USGS data point has been determined using discharge from site SS-07 at usgs.gov and stage from TREC IRE data on July 14, 2011 at 2:00 PM.

Figure C6. BPSOU 2021 Rating Curve - MSD-3A



Rating Curve developed from May through June 2010 data.
Note: The rating curve is applicable only for stream conditions unaffected by backwater, ice, debris, scour and other undefined changes to the control.

Appendix D
Norman Flow and Wet Weather Raw Data

Appendix E
Diagnostic Data Quality Assessment

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable
Table E2b. BPSOU 2021 Diagnostic Water Quality Results – Dissolved
Table E2c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry
Table E2d. BPSOU 2021 Diagnostic Water Quality Results – Field

Table E3. Quantity of Individual Analyses Flagged for Laboratory and Field Precision

Table E4a. BPSOU 2021 Diagnostic Data Quality Assessment - Field Duplicates
Table E4b. BPSOU 2021 Diagnostic Data Quality Assessment - Holding Times
Table E4c. BPSOU 2021 Diagnostic Data Quality Assessment – Blanks
Table E4d. BPSOU 2021 Diagnostic Data Quality Assessment - Laboratory Quality Control

Butte Priority Soils Operable Unit (BPSOU)
Silver Bow Creek/Butte Area Site

Appendix E: Data Quality Assessment

Draft 2021 Site-Wide Surface Water
Butte Hill Diagnostic Data

Atlantic Richfield

April 2022

TABLE OF CONTENTS

Page

1.0 Introduction 1
2.0 Data Quality Assurance/Quality Control 3
2.1 Field Quality Control 3
2.2 Laboratory Quality Control 3
3.0 Data Quality Assessment 3
3.1 Level A/B 4
3.2 Precision 4
3.2.1 Laboratory and Field Duplicates 4
3.3 Accuracy 5
3.3.1 Sample Preservation and Holding Time 5
3.3.2 Blanks 6
3.3.2.1 Field Blanks 7
3.3.2.2 Method Blanks 7
3.3.3 Matrix Spike and Matrix Spike Duplicate 7
3.3.4 Laboratory Control Spike and Laboratory Control Spike Duplicate 8
3.4 Representativeness 8
3.5 Completeness 8
3.6 Comparability 9
3.7 Sensitivity 9
3.8 Data Usability 9
4.0 Data Assessment Summary 10
5.0 References 11

LIST OF TABLES

Table E1 – Diagnostic Surface Water Sampling Standard Operating Procedures 2
Table E2 a-c - BPSOU 2021 Diagnostic Water Quality Results (see Tables Section) 4
Table E3a-d - BPSOU 2021 Diagnostic Data Quality Assessment (see Tables Section) 4
Table E4 - Quantity of Individual Analyses Flagged for Laboratory and Field Precision 5
Table E5 - Quantity of Individual Analyses Flagged for Holding Time Exceedances 5
Table E6 - Quantity of Individual Analyses Flagged for Improper Preservation 6
Table E7 – Blank Assessment Guidelines 6
Table E8 - Quantity of Individual Analyses Flagged for Field Blank Detections 7
Table E9 - Quantity of Individual Analyses Flagged for Method Blank Detections 7
Table E10 - Quantity of Individual Analyses Flagged for MS/MSD Exceedances 8
Table E11- Quantity of Individual Analyses Flagged for LCS/LCSD Recovery Exceedances 8
Table E12 - Quality Status for Diagnostic Analyses 10

LIST OF ATTACHMENTS

Attachment A Diagnostic Data Validation Checklists
Attachment B Level A/B Screening Checklists

ABBREVIATIONS AND ACRONYMS

ARCO	Atlantic Richfield Company
BMP	Best Management Practices
BPSOU	Butte Priority Soils Operable Unit
CFRSSI	Clark Fork River Superfund Site Investigation
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
DM/DV	Data Management/Data Validation
DQA	Data Quality Assessment
DQO	Data Quality Objectives
EPA	Environmental Protection Agency
FB	Field Blank
FRE	Further Remedial Elements
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IS	Internal Standards
LAP	Laboratory Analytical Protocol
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MB	Method Blank
MDL	Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
MTDEQ	Montana Department of Environmental Quality
PARCCS	Precision, Accuracy, Representativeness, Completeness, Comparability, and Sensitivity
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RL	Reporting Limit
ROD	Record of Decision
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SDG	Sample Delivery Group
SOP	Standard Operating Procedure
SRM	Standard Reference Materials
SW	Surface water
TSS	Total Suspended Solids

1.0 INTRODUCTION

The Butte Priority Soils Operable Unit (BPSOU) Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period (Atlantic Richfield, 2020) (QAPP) states that data collected in the BPSOU must meet certain objectives and criteria to meet the Data Quality Objectives (DQOs) for BPSOU surface water monitoring. The DQOs of the collection effort are that any diagnostic data collected during the interim monitoring period before the Compliance Standard Determination Period must be of sufficient quality to:

- Evaluate any necessary diagnostic data collected to identify currently implemented remedial system component optimization or maintenance, and necessary to inform Further Remedial Elements (FRE) design.
- Provide information regarding the magnitude of wet weather flow and concentrations of COCs entering SBC from sub-drainages.
- Identify data gaps (i.e., sampling locations, techniques, and frequency) so future revisions of the QAPP will provide data of sufficient quality and quantity to meet EPA's long-term remedial objectives.

Data quality assurance/quality control (QA/QC) is performed to ensure overall data quality for the data to be used in decisions regarding identification of source areas and implementation of best management practices (BMP).

To ensure data collected are of the quality required, surface water monitoring activities are performed in accordance with the following Clark Fork River Superfund Site Investigations (CFRSSI) regional control documents listed in the QAPP:

- CFRSSI Laboratory Analytical Protocol (LAP) (ARCO, 1992a);
- CFRSSI Data Management/Data Validation Plan (DM/DVP) Addendum (ARCO, 2000a);
- CFRSSI Standard Operating Procedures (ARCO, 1992c); and
- CFRSSI Pilot Data Summary Report for Organic and Inorganic Data Addendum (ARCO, 2000b).

The regional control documents have been approved by the EPA and are used to guide the collection, reduction, quality determination and reporting of data during BPSOU surface water monitoring. Data validation and reporting procedures for all data collected by TREC throughout 2021 are outlined in TREC's Data Validation Guidelines for Inorganic Chemistry (TREC DV Guidelines) (TREC, 2021). This is a dynamic document, incorporating CFRSSI regional control documents (as listed above), National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA, 2020), and the Montana Department of Environmental Quality (MTDEQ, 2010) guidance as a supplement to CFRSSI guidelines to aid the data reviewer in determining data usability.

Diagnostic surface water sample collection, including sample handling, preservation, custody, field quality control samples, documentation, and other associated activities were completed in compliance with the CFRSSI and TREC standard operating procedures (SOPs) listed in Table E1 below. Many of the CFRSSI SOPs have been modified to reflect technological changes since they

were adopted in 1992. Field instruments were calibrated in accordance with manufacturer instructions and in accordance with TREC SOPs.

Table E1 – Diagnostic Surface Water Sampling Standard Operating Procedures

Reference Number	Title	Originating Organization
G-4	Field Logbook/Photographs	ARCO
G-5	Sample Packaging and Shipping	ARCO
G-6	Field Quality Control Samples	ARCO
G-7	Sample Custody	ARCO
SOP-H-01	Water Sampling Equipment Decontamination	TREC, Inc.
SOP-H-05	Calibrate YSI Professional Plus Multi-Meter	TREC, Inc.
SOP-SW-01	Surface Water Sampling	TREC, Inc.
SOP-SW-06	Read Staff Gauge	TREC, Inc.
SOP-SW-07	Change ISCO Batteries	TREC, Inc.
SOP-SW-08	Automatic and Mechanical Sampler Setup	TREC, Inc.
SOP-SW-09	Collect Sample from DTEC Sampler	TREC, Inc.
SOP-SW-10	Collect Sample from ISCO Sampler	TREC, Inc.
SOP-SW-11	D-TEC Sample Preparation	TREC, Inc.
SOP-SW-12	Surface Water Wet Weather Sample Preparation	TREC, Inc.
SOP-SW-13	Change ISCO Batteries on Samplers Located in Manholes	TREC, Inc.
SOP-SW-14	Collect Sample from ISCO Sampler in Manhole	TREC, Inc.
SOP-SW-17	Construction of TTEC Sampler	TREC, Inc.
SOP-SW-20	Wet Weather Trigger Criteria	TREC, Inc.

Diagnostic sample delivery groups (SDGs) received from the laboratory and dates on which the samples were collected are listed below:

- 10560269: 5/7/21
- 10561913: 5/14/21, 5/19/21, 5/20/21, 5/21/21
- 10562410: 5/21/21-5/24/21
- 10563136: 5/25/21, 5/26/21
- 10565533: 6/10/21, 6/11/21
- 10568970: 7/1/21
- 10571347: 7/20/21
- 10573163: 8/1/21
- 10574254: 8/8/21
- 10575529: 8/18/21, 8/20/21
- 10576049: 8/21/21
- 10583383: 10/8/21

2.0 DATA QUALITY ASSURANCE/QUALITY CONTROL

Data QA/QC incorporates field and laboratory quality control measures which determine the error introduced into sampling and analysis procedures by personnel and equipment.

2.1 Field Quality Control

Required field quality control (QC) consisted of field duplicate samples and field blank samples (FB) collected at a frequency of one duplicate and one blank for every 20 natural samples. Natural, duplicate, and blank samples were submitted in single sample delivery groups (SDGs) to the laboratory. Analysis for duplicate and blank samples was identical to requested analysis for the associated natural samples. Inter-laboratory splits and standard reference materials (SRM) were not identified for collection under the QAPP.

2.2 Laboratory Quality Control

Pace Analytical Services (Minneapolis, Minnesota) was contracted to analyze surface water samples. To confirm that laboratory analyses and QA/QC procedures were performed per laboratory contract agreements, data validation was performed for all samples in each data package received. Data validation procedures used criteria outlined in the TREC DV Guidelines.

3.0 DATA QUALITY ASSESSMENT

Data quality assessment (DQA) was performed to determine if the DQOs identified in the QAPP were satisfied. The DQA process is outlined in EPA Guidance on Systemic Planning Using the Data Quality Objectives Process (EPA, 2006).

Laboratory analyses and QA/QC procedures were validated, and qualifiers were applied as appropriate. To review data for completeness and assign Level A/B review status, field logbook documentation, field forms, and sample chain of custody forms were reviewed. The sampling team was also available for questioning when clarification was needed. Next, data precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) were reviewed, and qualifiers were applied to data where necessary. Based upon the DQA process, data were assigned to one of three data utilization categories: enforcement quality, screening quality, and rejected (R) (unusable) data. Enforcement quality (unrestricted use) data result from and were supported by rigorous sampling and analysis protocols. Screening quality data did not meet applicable sampling or analytical QA/QC and/or documentation requirements. Unusable data result from inadequate sampling, analysis, and/or documentation procedures. Date validation checklists are provided as Attachment A to this appendix.

Sample results for diagnostic monitoring are presented in Table E2a through Table E2c. These tables present total recoverable metals results, dissolved metals results, and general chemistry results.

Data quality assessment results are presented in Table E3a through Table E3c. These tables present field duplicate results, holding times, field blank results, and laboratory quality control sample results. Table E4 through Table E12 below present the number of natural sample results that were given enforcement quality, screening quality, and the total number of natural sample results

assessed. Since field QC samples are not assigned a quality, they are not included in the summary table counts.

Table E2 a-c - BPSOU 2021 Diagnostic Water Quality Results (see Tables Section)

Table E3a-d - ***BPSOU 2021 Diagnostic Data Quality Assessment (see Tables Section)***

3.1 Level A/B

Level A/B review was applied to sample collection and documentation records, ensuring CFRSSI and TREC SOPs were followed. The data were assessed using the screening checklist provided in CFRSSI Pilot Data Summary Report Addendum (ARCO, 2000b). A data utilization category was assigned based on completed data validation reports and Level A/B assessments. Level B criteria were met for 100% of diagnostic samples. Completed Level A/B checklists are provided as Attachment B to this appendix.

3.2 Precision

Precision is the level of agreement among repeated measurements of the same characteristic. There are two general forms of uncertainty. The first is the random error component of the data collection process. The second is inherent stochastic variability, which cannot be eliminated but can be described.

Field precision is assessed by collecting and analyzing field duplicate samples, while laboratory precision is assessed by laboratory duplicate samples. Precision is evaluated by calculating variance between the samples. Variance for both laboratory and field duplicates were calculated as relative percent difference (RPD). For analytical results ≥5X the reporting limit (RL), precision is assessed by the RPD between the natural and duplicate sample results. Acceptable precision for field duplicates is RPDs ≤ 20%, while RPD criteria for laboratory precision varies for differing analyses. Table E3d includes laboratory % RPD limits. For analytical results <5X the RL, acceptable precision is a difference between the natural and duplicate sample result (delta) ≤ the RL.

3.2.1 Laboratory and Field Duplicates

Laboratory analytical precision was evaluated by analyzing laboratory duplicate samples (LDS), laboratory control sample duplicates (LCSD) and matrix spike/matrix spike duplicate (MS/MSD) samples, and then calculating the RPD for corresponding results. In each case where acceptable laboratory precision was not met, associated sample results were qualified, assigned a validation code of "RPD", and natural samples were assigned screening status. Note that Table E4, and all summary tables in this appendix, contain counts only for natural samples. It should also be noted that results may have received more than one validation code, and such results are counted in more than one of the tables below. Fifty-two (1.4% of analyses) natural sample results (and 6 field duplicates) were qualified for laboratory precision. Affected analyses were total suspended solids (TSS) and total mercury. Table E3d includes laboratory duplicate results.

Diagnostic field duplicate results as well as corresponding RPD values are presented in Table E3a. Field duplicate RPD results were within the required acceptance criteria for 91% of duplicate sample sets. Fifteen field duplicate results did not meet precision criteria, resulting in 136 natural samples (and 15 field duplicates) being qualified as estimated, assessed as screening quality, and

assigned an "FD" data validation code. Affected analytes were total cadmium, dissolved copper, total iron, total and dissolved lead, sulfate, TSS, and total zinc. Table E4 presents field duplicate results for diagnostic samples collected in 2021.

Table E4 - Quantity of Individual Analyses Flagged for Laboratory and Field Precision

Monitoring Type	# RPD	# FD	Total	% RPD	%FD
Diagnostic	52	136	3841	1.4	3.5

3.3 Accuracy

Accuracy is the degree of difference between the measured or calculated value and the true value. It is a measure of the bias or systematic error of the entire data collection process. The QAPP does not require submittal of blind standard reference material (SRM) samples; thus, field accuracy was evaluated by use of field blanks only. Laboratory accuracy was based on analysis of method blanks (MB), matrix spike/matrix spike duplicate (MS/MSD) samples, and laboratory control samples/laboratory control sample duplicates (LCS/LCSD), as appropriate to the analytical method. Laboratory accuracy is also assessed on results of initial calibration blanks (ICBs), continuing calibration blanks (CCBs), initial calibration verifications (ICV), continuing calibration verifications (CCV), and internal standards (IS), as applicable to the analytical method. Although ICB, CCB, ICV, CCV, and IS results are completed for all applicable analyses, their results are reported only in Limited Plus and Full data packages. All diagnostic surface water data packages were Limited; however, the project narrative stated there were no problems with these laboratory calibration samples.

Proper sample handling, including correct preservation and analysis within method holding times, also affects accuracy.

3.3.1 Sample Preservation and Holding Time

Data validation included reviewing the laboratory deliverable to ensure all samples were properly preserved and analyzed within the method-specific technical holding time. Table E5 summarizes holding time qualifications for diagnostic analyses. Nearly 100% (99.6%) of analyses were completed within the method holding time, with 17 natural sample analyses (and 2 QC sample results) exceeding holding time. Analyses exceeded holding time and were assigned the data validation code "HT". Affected analyses were TSS. Table E5 below lists the quantity of individual natural sample analyses flagged for hold time exceedances. Table E3b presents the laboratory data in reference to hold times for the diagnostic samples collected in 2021 (see Tables section).

Table E5 - Quantity of Individual Analyses Flagged for Holding Time Exceedances

Monitoring Type	# HT screening quality	Total	%HT
Diagnostic	17	3841	0.44

As Table E6 shows, all 2021 diagnostic surface water samples were received by the laboratory in compliance with pH and temperature requirements.

Table E6 - Quantity of Individual Analyses Flagged for Improper Preservation

Monitoring Type	# IP screening quality	Total	%IP
Diagnostic	0	3841	0%

3.3.2 Blanks

Field blanks (FB) and laboratory method blanks (MB) were analyzed to assess artifacts introduced during sampling, transport and/or analysis that may affect the accuracy of the data. In addition, initial calibration blanks (ICBs), and continuing calibration blanks (CCBs) are used by the lab to verify that sample concentrations are accurately measured by the analytical instrument throughout the analytical run. Although ICBs and CCBs are completed for all analyses other than TSS, their results are reported only in Limited Plus and Full data packages. All diagnostic data packages were Limited, but the project narrative did not indicate any problems with laboratory calibration blank samples.

Laboratory and field blanks are assessed according to the rules in Table E7 which is reproduced from the TREC DV Guidelines. Because MDLs are calculated statistically, results within one standard deviation of the MDL should be considered non-detects. Laboratory data packages do not include the standard deviations derived from MDL studies, thus an Agency approved alternative approach is to consider detections ≤ 1.5X MDL as being within acceptance criteria.

Table E7 – Blank Assessment Guidelines

Blank Result	Sample Result	Action
≥ MDL, but ≤ 1.5x MDL	Any	No Action
> 1.5x MDL	< MDL	No Action
	≥ MDL, but ≤ RL	Qualify results as estimated non-detect **(UJ)**
	> RL, but ≤ 10x FB result	Qualify results as estimated high **(J+)**
	>10x FB result	No Action

Professional judgement was used in assigning data validation codes in cases that both the FB and MB had detections >1.5x the MDL. This judgement was based on the magnitude of the FB detection compared to the magnitude of the MB detection.

3.3.2.1 Field Blanks

Field blanks were analyzed to assess artifacts introduced during sampling and transport that may affect the accuracy of the data. Field blanks were prepared at a frequency of one for every 20 samples collected, or once per sampling event, whichever was more frequent.

Acceptable results (≤1.5X the MDL) were obtained for 91% of diagnostic FB analyses. Table E3c presents all field blank results (see tables section). After assessing associated results according to the rules in Table E7, 50 natural sample results (and 6 field duplicate results) were qualified for FB detections. These results were qualified as estimated high, assigned an "FB" data validation code, and natural samples and were assigned screening quality. Affected analyses were total and dissolved copper, total iron, total and dissolved lead, and total zinc. Table E8 summarizes FB qualifications.

Table E8 - Quantity of Individual Analyses Flagged for Field Blank Detections

Monitoring Type	# FB	Total	%FB
Diagnostic	50	3841	1.3

3.3.2.2 Method Blanks

Method blanks were analyzed for every analytical batch of 20 or fewer samples. The method blank is laboratory DI water which has gone through the applicable sample preparation and analysis procedure. No natural sample results were qualified for MB detections, however, 1 field blank was qualified for a MB detection. The affected result was total lead. (The qualified result was coded "MB" and qualified as estimated non-detect, FB are not assigned a quality). Table E9 summarizes qualifications based on MB detections for natural sample results. Table E3d in the tables section includes results for laboratory MBs.

Table E9 - Quantity of Individual Analyses Flagged for Method Blank Detections

Monitoring Type	# MB	Total	%MB
Diagnostic	0	3841	0

3.3.3 Matrix Spike and Matrix Spike Duplicate

Laboratory MS/MSD results and recoveries can be found in Table E3d. One hundred five (2.7%) natural sample results (and 10 QC sample results) were qualified for MS/MSD recoveries. Corresponding sample results were qualified as estimated, assigned an "MS" validation code, and natural sample results were assigned screening quality. Affected analytes were sulfate, and total copper, iron, lead, mercury, and zinc. Table E10 lists the number of results qualified for MS/MSD recoveries. Note that acceptance criteria is waived when the parent sample concentration is ≥ 4x the spike concentration.

Table E10 - Quantity of Individual Analyses Flagged for MS/MSD Exceedances

Monitoring Type	# MS screening quality	Total	% MS screen quality
Diagnostic	105	3841	2.7

3.3.4 Laboratory Control Spike and Laboratory Control Spike Duplicate

Laboratory control samples are required for all analyses. Laboratory control duplicates are required for sulfate analysis by ASTMD516-90 and alkalinity analysis by SMC2450C. LCS/LCSD were analyzed for every batch of 20 or fewer samples as appropriate to the analysis. The LCS is DI water spiked with known concentrations of all target analytes. The LCSD is a duplicate sample of the LCS.

No diagnostic sample results were qualified for LCS/LCSD recoveries during 2021. Table E11 summarizes qualifications based on LCS/LCSD recoveries.

Table E11- Quantity of Individual Analyses Flagged for LCS/LCSD Recovery Exceedances

Monitoring Type	# LCS/LCSD	Total	% LCS/LCSD
Diagnostic	0	3841	**0**

3.4 Representativeness

Data representativeness is defined as the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point or environmental conditions. Representativeness is a qualitative parameter that is most concerned with the proper design of the sampling program. Representativeness of samples shall be achieved through the careful selection of sampling locations and methods. The QAPP incorporates a monitoring network designed to provide samples that are representative of the medium being sampled as well as sufficient samples to meet the project DQOs. Sample representativeness may also be evaluated using the RPDs for field duplicate results. The collected data is believed to be representative of conditions within the BPSOU diagnostic monitoring network.

3.5 Completeness

Completeness refers to the amount of usable data produced during a sampling and analysis program. The procedures established in this Data Quality Assessment are designed to ensure, to the extent possible, that data shall be valid and usable. To achieve this objective, every effort was made to collect each required sample and to avoid sample loss. The QAPP completeness goal is 95 percent for each matrix. Those data that are validated and need no qualification (enforcement quality data) or are qualified as estimated data (screening quality data), are considered usable. Rejected data are not considered usable.

Diagnostic monitoring completeness can be assessed by comparing the number of analyses that were completed to the number of analyses which should have been completed. A total of 295 wet weather diagnostic samples were collected, and of these 253 were natural samples, 21 were field duplicates, and 21 were field blanks. The intended analyses for each sample were total metals, dissolved metals, sulfate, and TSS. No diagnostic sample data points were rejected. Due to inadequate sample volumes, numerous samples did not receive all analyses. Of the intended 4,048 natural sample analyses, 3,841 were completed. Thus, analytical completeness for 2021 diagnostic sampling is 95%.

3.6 Comparability

Consistency in the acquisition, handling and analysis of samples is necessary for comparing results. Where appropriate, the results of analyses obtained were compared with the results obtained in previous studies. Sample locations and parameters consistent with previous studies and use of standard EPA approved analytical methods were used to ensure comparability of results with other analyses performed in a similar manner within the BPSOU. No diagnostic samples collected throughout 2021, were found to have comparability irregularities.

3.7 Sensitivity

Sensitivity refers to the capability to quantify an analyte at a given concentration, and this parameter is associated with the MDLs and the project reporting limits. The desired analytical sensitivity are MDLs less than the applicable water quality standards specified in Montana Circular DEQ-7, Montana Numeric Water Quality Standards (May 2017). For analytes which do not have water quality standards, the desired sensitivity is a concentration which will enable the analytical data to be used for geochemical interpretation. Analytical data met the desired level of sensitivity.

3.8 Data Usability

The three data utilization categories described in the DM/DV Plan include: enforcement quality data (E), screening quality data (S), and unusable data (R). Enforcement quality data meet all QA/QC and documentation requirements. Screening quality data do not meet the applicable QA/QC requirements and/or documentation requirements. Unusable data may result from inappropriate sampling, analysis, or documentation procedures. Enforcement or screening quality data are utilized for evaluation of surface water quality.

During the 2021 monitoring period a total of 293 samples were collected resulting in 4,495 (3,841 natural sample results and 654 QC sample results), all of which underwent data validation. In the validation process, only natural sample data points receive a usability category. Of the 3,841 natural sample data points, 3,514 (91%) were assigned enforcement level status, 327 (9%) were assigned screening level status, and none were rejected. Table E12 summarizes the quality status for diagnostic analyses. 100% of the 2021 diagnostic sample results were usable.

Table E12 - Quality Status for Diagnostic Analyses

Monitoring Type	Natural Samples	Enforcement Quality (E)	Screening Quality (S)	%E	%S
Diagnostic	3841	3514	327	91	9

4.0 DATA ASSESSMENT SUMMARY

The quality of data was evaluated based on laboratory and field QC analyses. Data validation and data assessment were performed by TREC, Inc., located in Butte, Montana, in conformance with CFRSSI DM/DV Plan (ARCO, 1992a and 2000a) and TREC Data Validation Guidelines for Inorganic Chemistry (TREC, 2021).

Laboratory analyses and QA/QC procedures were validated, and qualifiers were applied as appropriate. To review data for completeness and assign Level A/B review status, field logbook documentation and sample chain of custody forms were reviewed. The sampling team was also available for questioning when clarification was needed. All data was found to meet Level B status. Next, data precision, accuracy, representativeness, completeness, comparability, and sensitivity were reviewed, and qualifiers were applied to data where necessary. Finally, data were tabulated and identified as being of either enforcement or screening quality, or the data were rejected.

There was a total of 3,841 diagnostic natural sample data points assessed during the 2021 monitoring season. Of these, 3,514 met enforcement quality and 327 met screening quality.

1. The 3,514 diagnostic sample data points (91% of the total) which met enforcement quality standards can be categorized as definitive data with unrestricted use. They are supported by rigorous sampling and analyses protocols, as well as Level B documentation.
2. The 327 diagnostic sample data points (9% of the total) which met screening quality standards can be categorized as data whose associated numerical values are estimated.

Copies of sample chain of custodies, field logs, and field quality control checklists associated with validation of the data presented in this report are included as attachments to this appendix. Laboratory reports can be found in Appendix G. Original field logs are maintained at TREC's field office in Butte, Montana.

5.0 REFERENCES

ARCO, 1992a. Clark Fork River Superfund Site Investigations Laboratory Analytical Protocol, April 1992.

ARCO, 1992c. Clark Fork River Superfund Site Investigations Standard Operating Procedures, September 1992.

ARCO, 2000a. Clark Fork River Superfund Site Investigations Data Management/Data Validation Plan Addendum, July 2000.

ARCO, 2000b. Clark Fork River Superfund Site Investigations Pilot Data Report Addendum, July 2000.

Atlantic Richfield, 2020. Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan for 2020 and 2021 Monitoring Period, Atlantic Richfield, 2020.

EPA, 2006. EPA Guidance on Systematic Planning Using the Data Quality Objectives Process, PA QA/G-4. February 2006.

EPA, 2020. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020.

MTDEQ, 2017. Montana Circular DEQ-7, Montana Numeric Water Quality Standards, May 2017.

MTDEQ, 2018. Montana Department of Environmental Quality Data Validation Guidelines for Evaluating Analytical Data, January 26, 2018.

TREC, 2021. Data Validation Guidelines for Inorganic Chemistry, December 2021.

Tables

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	0.0322	0.0007				E	0.0014	0.00015				E	0.165	0.0021				E	15	0.06				E
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	0.0305	0.0007					0.0013	0.00015					0.158	0.0021					14.3	0.06				
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	0.00014	0.00014	J				0.000081	0.00003					0.00043	0.00043	U				0.012	0.012	U			
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	0.0487	0.0007				E	0.0026	0.00015				E	0.286	0.0021				E	27.8	0.06	P6			E
10560269	GG-CLV-D	SWSD0005-050721	10560269005	2021-05-07 17:20	FG	B	0.0619	0.0007				E	0.0052	0.00015				E	0.367	0.0021				E	37.9	0.06				E
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	0.0114	0.00014				E	0.00086	0.00003				E	0.0765	0.00043				E	6.44	0.012	M1	J-	MS	S
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	0.0114	0.00014				E	0.00079	0.00003				E	0.0809	0.00043				E	6.62	0.012		J-	MS	S
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	0.0104	0.00014				E	0.00068	0.00003				E	0.0743	0.00043				E	6.32	0.012		J-	MS	S
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	0.0089	0.00014				E	0.00057	0.00003				E	0.0797	0.00043				E	6.48	0.012		J-	MS	S
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	0.0091	0.00014				E	0.00054	0.00003				E	0.0808	0.00043				E	6.32	0.012		J-	MS	S
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	0.0097	0.00014				E	0.00053	0.00003				E	0.0855	0.00043				E	6.49	0.012		J-	MS	S
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	0.0154	0.00014				E	0.00092	0.00003				E	0.139	0.00043				E	10.5	0.012		J-	MS	S
10561913	GG-CLV-D	SWSD0013-052021	10561913008	2021-05-20 07:45	IS1	B	0.0262	0.00014				E	0.0011	0.00003				E	0.144	0.00043				E	13.9	0.012				E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	0.0066	0.00014				E	0.00013	0.00003				E	0.0601	0.00043				E	1.49	0.012				E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	0.0115	0.00014				E	0.00013	0.00003				E	0.0691	0.00043				E	2.38	0.012				E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	0.0103	0.00014				E	0.00011	0.00003				E	0.0681	0.00043				E	2.27	0.012				E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	0.0109	0.00014					0.00012	0.00003					0.0746	0.00043					2.39	0.012				
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00054	0.00043	J				0.012	0.012	U			
10561913	GG-CLV-C	SWSD0019-051421	10561913014	2021-05-14 20:00	AS	B	0.0141	0.00014				E	0.002	0.00003				E	0.188	0.00043				E	1.42	0.012				E
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	0.0265	0.00014				E	0.0017	0.00003				E	0.177	0.00043				E	16.7	0.012				E
10561913	GG-CLV-D	SWSD0021-052121	10561913016	2021-05-21 07:51	AS	B	0.0256	0.00014				E	0.0011	0.00003				E	0.142	0.00043				E	12.9	0.012				E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	0.0319	0.00014				E	0.0023	0.00003				E	0.267	0.00043				E	15.9	0.012				E
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	0.0222	0.00014				E	0.0016	0.00003				E	0.176	0.00043				E	11.2	0.012				E
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	0.0091	0.00014				E	0.00044	0.00003				E	0.0564	0.00043				E	4.53	0.012				E
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	0.0162	0.00014				E	0.0011	0.00003				E	0.113	0.00043				E	9.52	0.012				E
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	0.0219	0.00014				E	0.0017	0.00003				E	0.152	0.00043				E	13	0.012				E
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	0.0204	0.00014				E	0.0013	0.00003				E	0.163	0.00043				E	12.3	0.012				E
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	0.0195	0.00014				E	0.0011	0.00003				E	0.17	0.00043				E	11.9	0.012				E
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	0.0148	0.00014				E	0.0008	0.00003				E	0.111	0.00043				E	9.06	0.012				E
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	0.0062	0.00014				E	0.00005	0.00003	J			E	0.0045	0.00043		J+	FB	S	0.341	0.012				E
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	0.0089	0.00014				E	0.00012	0.00003				E	0.0102	0.00043		J+	FB	S	1.14	0.012				E
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	0.0068	0.00014				E	0.000065	0.00003	J			E	0.0067	0.00043		J+	FB	S	0.474	0.012				E
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	0.0063	0.00014				E	0.000039	0.00003	J			E	0.0047	0.00043		J+	FB	S	0.348	0.012				E
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	0.0076	0.00014				E	0.000082	0.00003				E	0.0097	0.00043		J+	FB	S	0.77	0.012				E
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	0.0063	0.00014				E	0.000046	0.00003	J			E	0.0051	0.00043		J+	FB	S	0.362	0.012				E
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	0.0065	0.00014				E	0.000042	0.00003	J			E	0.0046	0.00043		J+	FB	S	0.394	0.012				E
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	0.0064	0.00014				E	0.000059	0.00003	J			E	0.0056	0.00043		J+	FB	S	0.407	0.012				E
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	0.0064	0.00014					0.000048	0.00003	J				0.0047	0.00043		J+	FB		0.407	0.012				
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.0027	0.00043					0.012	0.012	U			
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	0.0306	0.00014				E	0.0013	0.00003				E	0.173	0.00043				E	13.1	0.012				E
10562410	GG-CLV-D	SWSD0041-052321	10562410020	2021-05-23 17:00	IS1	B	0.0394	0.00014				E	0.0017	0.00003				E	0.23	0.00043				E	21.4	0.012				E
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	0.0133	0.00014				E	0.00028	0.00003				E	0.179	0.00043				E	5.41	0.012				E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	0.0071	0.00014				E	0.000084	0.00003				E	0.0442	0.00043				E	1.06	0.012				E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	0.0085	0.00014				E	0.00018	0.00003				E	0.089	0.00043				E	2.79	0.012				E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	0.0062	0.00014				E	0.000099	0.00003				E	0.0536	0.00043				E	1.99	0.012				E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	0.0058	0.00014				E	0.000086	0.00003				E	0.0507	0.00043				E	1.63	0.012				E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	0.0061	0.00014					0.00009	0.00003					0.0541	0.00043					1.77	0.012				
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10562410	GG-CLV-C	SWSD0049-052321	10562410028	2021-05-23 17:00	AS	B	0.0052	0.00014				E	0.00095	0.00003				E	0.0542	0.00043				E	1.27	0.012				E
10562410	GG-CLV-D	SWSD0050-052321	10562410029	2021-05-23 17:00	AS	B	0.0298	0.00014				E	0.0016	0.00003				E	0.175	0.00043				E	13.2	0.012				E
10562410	GG-CLV-I	SWSD0051-052321	10562410030	2021-05-23 17:00	AS	B	0.0485	0.00014				E	0.0018	0.00003				E	0.307	0.00043				E	3.64	0.012				E
10562410	MPTP-CLV-1	SWSD0052-052321	10562410031	2021-05-23 17:00	AS	B	0.0191	0.00014				E	0.0008	0.00003				E	0.0956	0.00043				E	3.44	0.012				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	0.00006	0.000045	J			E	0.121	0.00022				E	0.32	0.0114				E
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	0.00006	0.000045	J				0.112	0.00022					0.306	0.0114				
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	0.000045	0.000045	U				0.00014	0.000043					0.0023	0.0023	U			
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	0.00014	0.000045	J			E	0.229	0.00022				E	0.59	0.0114	P6			E
10560269	GG-CLV-D	SWSD0005-050721	10560269005	2021-05-07 17:20	FG	B	0.00016	0.000045	J			E	0.282	0.00022				E	0.788	0.0114				E
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	0.00006	0.000045	J			E	0.0826	0.000043				E	0.346	0.0023	M1	J-	MS	S
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	0.00006	0.000045	J			E	0.0886	0.000043				E	0.313	0.0023		J-	MS	S
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	0.00005	0.000045	J			E	0.0754	0.000043				E	0.278	0.0023		J-	MS	S
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	0.00007	0.000045	J			E	0.0651	0.000043				E	0.255	0.0023		J-	MS	S
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	0.00007	0.000045	J			E	0.0696	0.000043				E	0.253	0.0023		J-	MS	S
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	0.00008	0.000045	J			E	0.0706	0.000043				E	0.257	0.0023		J-	MS	S
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	0.00015	0.000045	J			E	0.135	0.000043				E	0.438	0.0023		J-	MS	S
10561913	GG-CLV-D	SWSD0013-052021	10561913008	2021-05-20 07:45	IS1	B	0.00008	0.000045	J			E	0.112	0.000043				E	0.291	0.0023				E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	0.000045	0.000045	U			E	0.0077	0.000043				E	0.0471	0.0023				E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	0.000045	0.000045	U			E	0.0083	0.000043				E	0.0501	0.0023				E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	0.000045	0.000045	U			E	0.0067	0.000043				E	0.0448	0.0023				E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	0.000045	0.000045	U				0.0077	0.000043					0.047	0.0023				
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	0.000045	0.000045	U				0.000068	0.000043	J				0.0023	0.0023	U			
10561913	GG-CLV-C	SWSD0019-051421	10561913014	2021-05-14 20:00	AS	B	0.000045	0.000045	U			E	0.0131	0.000043				E	0.139	0.0023				E
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	0.00013	0.000045	J			E	0.138	0.000043				E	0.348	0.0023				E
10561913	GG-CLV-D	SWSD0021-052121	10561913016	2021-05-21 07:51	AS	B	0.00008	0.000045	J			E	0.103	0.000043				E	0.267	0.0023				E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	0.00022	0.000045				E	0.291	0.000043				E	0.937	0.0229				E
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	0.00014	0.000045	J			E	0.191	0.000043				E	0.65	0.0023				E
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	0.000045	0.000045	U			E	0.0477	0.000043				E	0.215	0.0023				E
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	0.00011	0.000045	J			E	0.116	0.000043				E	0.496	0.0023				E
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	0.00022	0.000045				E	0.184	0.000043				E	0.728	0.0023				E
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	0.00015	0.000045	J			E	0.149	0.000043				E	0.615	0.0023				E
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	0.00013	0.000045	J			E	0.137	0.000043				E	0.571	0.0023				E
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	0.00007	0.000045	J			E	0.0859	0.000043				E	0.417	0.0023				E
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	0.000045	0.000045	U			E	0.00083	0.000043		J+	FB	S	0.0659	0.0023				E
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	0.000045	0.000045	U			E	0.0048	0.000043		J+	FB	S	0.147	0.0023				E
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	0.000045	0.000045	U			E	0.0016	0.000043				E	0.0809	0.0023				E
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	0.000045	0.000045	U			E	0.00072	0.000043		J+	FB	S	0.061	0.0023				E
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	0.000045	0.000045	U			E	0.0034	0.000043				E	0.116	0.0023				E
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	0.000045	0.000045	U			E	0.001	0.000043		J+	FB	S	0.0645	0.0023				E
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	0.000045	0.000045	U			E	0.0011	0.000043		J+	FB	S	0.0681	0.0023				E
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	0.000045	0.000045	U			E	0.0012	0.000043		J+	FB	S	0.0695	0.0023				E
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	0.000045	0.000045	U				0.0012	0.000043		J+	FB		0.0702	0.0023				
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	0.000045	0.000045	U				0.00015	0.000043					0.0023	0.0023	U			
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	0.00008	0.000045	J			E	0.104	0.000043				E	0.272	0.0023				E
10562410	GG-CLV-D	SWSD0041-052321	10562410020	2021-05-23 17:00	IS1	B	0.00011	0.000045	J			E	0.169	0.000043				E	0.464	0.0023				E
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	0.000045	0.000045	U			E	0.0252	0.000043				E	0.105	0.0023				E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	0.000045	0.000045	U			E	0.0066	0.000043				E	0.0333	0.0023				E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	0.000045	0.000045	U			E	0.0163	0.000043				E	0.0775	0.0023				E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	0.000045	0.000045	U			E	0.0083	0.000043				E	0.0566	0.0023				E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	0.000045	0.000045	U			E	0.0068	0.000043				E	0.0475	0.0023				E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	0.000045	0.000045	U				0.0071	0.000043					0.0483	0.0023				
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	0.000045	0.000045	U				0.000061	0.000043	J				0.0023	0.0023	U			
10562410	GG-CLV-C	SWSD0049-052321	10562410028	2021-05-23 17:00	AS	B	0.000045	0.000045	U			E	0.0088	0.000043				E	0.0854	0.0023				E
10562410	GG-CLV-D	SWSD0050-052321	10562410029	2021-05-23 17:00	AS	B	0.00009	0.000045	J			E	0.124	0.000043				E	0.3	0.0023				E
10562410	GG-CLV-I	SWSD0051-052321	10562410030	2021-05-23 17:00	AS	B	0.00007	0.000045	J			E	0.0535	0.000043				E	0.486	0.0229				E
10562410	MPTP-CLV-1	SWSD0052-052321	10562410031	2021-05-23 17:00	AS	B	0.000045	0.000045	U			E	0.0276	0.000043				E	1.05	0.0229				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		0.0392	0.00014				E	0.0031	0.00003				E	0.366	0.00043				E	27.3	0.012				E
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		0.012	0.00014				E	0.00077	0.00003				E	0.101	0.00043				E	10.3	0.012				E
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		0.0097	0.00014				E	0.00071	0.00003				E	0.11	0.00043				E	7.98	0.012				E
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		0.0113	0.00014				E	0.0008	0.00003				E	0.0903	0.00043				E	7.42	0.012				E
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		0.0187	0.00014				E	0.0012	0.00003				E	0.152	0.00043				E	11.7	0.012				E
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		0.0175	0.00014				E	0.0011	0.00003				E	0.153	0.00043				E	13.4	0.012				E
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		0.0174	0.00014				E	0.0011	0.00003				E	0.161	0.00043				E	13.3	0.012				E
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		0.0158	0.00014				E	0.0012	0.00003				E	0.135	0.00043				E	10.3	0.012				E
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		0.0735	0.00014				E	0.004	0.00003				E	0.42	0.00043				E	48.9	0.12				E
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		0.0113	0.00014				E	0.00043	0.00003				E	0.128	0.00043				E	6.81	0.012				E
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		0.013	0.00014				E	0.00055	0.00003				E	0.155	0.00043				E	8.34	0.012				E
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		0.0142	0.00014				E	0.00057	0.00003				E	0.177	0.00043				E	9.38	0.012				E
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		0.0186	0.00014				E	0.00085	0.00003				E	0.252	0.00043				E	13.5	0.012				E
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		0.0172	0.00014				E	0.00078	0.00003				E	0.246	0.00043				E	13.4	0.012				E
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		0.017	0.00014				E	0.00074	0.00003				E	0.257	0.00043				E	14.4	0.012				E
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		0.0176	0.00014					0.00076	0.00003					0.267	0.00043					14.8	0.012				
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		0.0085	0.00014				E	0.0003	0.00003				E	0.0689	0.00043				E	2.11	0.012				E
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		0.0128	0.00014				E	0.00046	0.00003				E	0.153	0.00043				E	4.61	0.012				E
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		0.0134	0.00014				E	0.00044	0.00003				E	0.167	0.00043				E	5.32	0.012				E
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		0.0149	0.00014				E	0.00051	0.00003				E	0.211	0.00043				E	6.36	0.012				E
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		0.0167	0.00014				E	0.00072	0.00003				E	0.238	0.00043				E	7.56	0.012				E
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		0.0149	0.00014				E	0.00063	0.00003				E	0.17	0.00043				E	5.55	0.012				E
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		0.0139	0.00014				E	0.00073	0.00003				E	0.155	0.00043				E	7.39	0.012				E
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		0.0138	0.00014				E	0.0007	0.00003				E	0.17	0.00043				E	7.94	0.012				E
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		0.0143	0.00014					0.00072	0.00003					0.184	0.00043					8.51	0.012				
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		0.0209	0.00014				E	0.0005	0.00003				E	0.323	0.00043				E	9.01	0.012				E
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		0.0205	0.00014				E	0.00072	0.00003				E	0.37	0.00043				E	12.5	0.012				E
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		0.0142	0.00014				E	0.00027	0.00003				E	0.16	0.00043				E	4.57	0.012				E
10563136	GG-CLV-C	SWSD0083-052621	10563136031	2021-05-26 09:00	AS		0.0054	0.00014				E	0.00088	0.00003				E	0.0507	0.00043				E	1.38	0.012				E
10563136	MPTP-CLV-1	SWSD0084-052621	10563136032	2021-05-26 09:00	AS		0.0142	0.00014				E	0.00064	0.00003				E	0.103	0.00043				E	1.68	0.012				E
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	0.0092	0.0007				E	0.00096	0.00015				E	0.0778	0.0021				E	4.6	0.06		J+	MS	S
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	0.01	0.0007				E	0.001	0.00015				E	0.0886	0.0021				E	5.23	0.06	M1	J+	MS	S
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	0.0212	0.0007				E	0.002	0.00015				E	0.189	0.0021				E	11.7	0.06		J+	MS	S
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	0.0391	0.0007				E	0.0032	0.00015				E	0.391	0.0021				E	20.6	0.06		J+	MS	S
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	0.0764	0.0007				E	0.0041	0.00015				E	0.823	0.0021				E	27.1	0.06		J+	MS	S
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	0.0207	0.0007				E	0.00049	0.00015				E	0.0484	0.0021				E	4.04	0.06				E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	0.033	0.0007				E	0.0015	0.00015				E	0.194	0.0021				E	19	0.06				E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	0.0091	0.00014				E	0.00031	0.00003				E	0.119	0.00043				E	5.37	0.012				E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	0.0105	0.0007				E	0.00043	0.00015				E	0.166	0.0021				E	7.5	0.06				E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	0.013	0.0007				E	0.00058	0.00015				E	0.243	0.0021				E	10.3	0.06				E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	0.0281	0.0007				E	0.0013	0.00015				E	0.524	0.0021				E	24.6	0.06				E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	0.0129	0.00014				E	0.000069	0.00003	J			E	0.0217	0.00043				E	4.91	0.012				E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	0.0075	0.00014				E	0.00015	0.00003				E	0.0467	0.00043				E	1.28	0.012				E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	0.0073	0.00014					0.00016	0.00003					0.0451	0.00043					1.25	0.012				
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	0.011	0.00014				E	0.00039	0.00003				E	0.0911	0.00043				E	1.78	0.012				E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	0.0116	0.0007				E	0.00046	0.00015				E	0.112	0.0021				E	2.25	0.06				E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	0.0124	0.00014				E	0.00056	0.00003				E	0.117	0.00043				E	2.39	0.012				E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	0.0104	0.00014				E	0.00047	0.00003				E	0.101	0.00043				E	2.77	0.012				E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	0.0099	0.00014				E	0.00044	0.00003				E	0.0989	0.00043				E	3.09	0.012				E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	0.0107	0.00014				E	0.00049	0.00003				E	0.111	0.00043				E	3.76	0.012				E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	0.0117	0.00014				E	0.00067	0.00003				E	0.138	0.00043				E	4.99	0.012				E
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	0.0111	0.00014					0.00063	0.00003					0.13	0.00043					4.6	0.012				
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		0.00032	0.000045				E	0.432	0.000043				E	1.28	0.0229				E
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		0.00011	0.000045	J			E	0.127	0.000043				E	0.361	0.0023				E
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		0.0001	0.000045	J			E	0.107	0.000043				E	0.294	0.0023				E
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		0.00009	0.000045	J			E	0.091	0.000043				E	0.344	0.0023				E
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		0.00014	0.000045	J			E	0.14	0.000043				E	0.538	0.0023				E
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		0.00012	0.000045	J			E	0.158	0.000043				E	0.565	0.0023				E
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		0.00012	0.000045	J			E	0.146	0.000043				E	0.579	0.0023				E
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		0.00011	0.000045	J			E	0.163	0.000043				E	0.541	0.0023				E
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		0.00028	0.000045				E	0.392	0.000043				E	0.985	0.0229				E
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		0.00005	0.000045	J			E	0.0435	0.000043				E	0.178	0.0023				E
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		0.000045	0.000045	U			E	0.0526	0.000043				E	0.212	0.0023				E
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		0.00005	0.000045	J			E	0.0616	0.000043				E	0.244	0.0023				E
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		0.00008	0.000045	J			E	0.0837	0.000043				E	0.342	0.0023				E
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		0.00007	0.000045	J			E	0.0798	0.000043				E	0.352	0.0023				E
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		0.00006	0.000045	J			E	0.0716	0.000043				E	0.361	0.0023				E
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		0.00006	0.000045	J				0.0741	0.000043					0.374	0.0023				
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		0.000045	0.000045	U				0.000087	0.000043	J				0.0023	0.0023	U			
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		0.000045	0.000045	U			E	0.013	0.000043				E	0.0775	0.0023				E
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		0.000045	0.000045	U			E	0.0266	0.000043				E	0.142	0.0023				E
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		0.00007	0.000045	J			E	0.032	0.000043				E	0.161	0.0023				E
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		0.00007	0.000045	J			E	0.039	0.000043				E	0.193	0.0023				E
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		0.0001	0.000045	J			E	0.0523	0.000043				E	0.239	0.0023				E
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		0.00011	0.000045	J			E	0.0544	0.000043				E	0.223	0.0023				E
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		0.00024	0.000045				E	0.0767	0.000043				E	0.288	0.0023				E
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		0.00016	0.000045	J			E	0.064	0.000043				E	0.297	0.0023				E
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		0.00017	0.000045	J				0.0677	0.000043					0.313	0.0023				
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		0.000045	0.000045	U				0.000074	0.000043	J				0.0023	0.0023	U			
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		0.00007	0.000045	J			E	0.0412	0.000043				E	0.191	0.0023				E
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		0.00006	0.000045	J			E	0.0582	0.000043				E	0.338	0.0023				E
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		0.000045	0.000045	U			E	0.02	0.000043				E	0.0997	0.0023				E
10563136	GG-CLV-C	SWSD0083-052621	10563136031	2021-05-26 09:00	AS		0.000045	0.000045	U			E	0.009	0.000043				E	0.0805	0.0023				E
10563136	MPTP-CLV-1	SWSD0084-052621	10563136032	2021-05-26 09:00	AS								0.0137	0.000043				E	1.07	0.0229				E
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	0.000045	0.000045	U			E	0.0602	0.00022				E	0.329	0.0114				E
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	0.00005	0.000045	J			E	0.0747	0.00022				E	0.376	0.0114				E
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	0.00009	0.000045	J			E	0.184	0.00022				E	0.74	0.0114				E
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	0.00021	0.000045				E	0.32	0.00022				E	1.24	0.0114				E
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	0.00028	0.000045				E	0.497	0.00022				E	1.55	0.0114				E
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	0.000045	0.000045	U			E	0.0225	0.00022				E	0.451	0.0114				E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	0.00008	0.000045	J			E	0.129	0.00022				E	0.415	0.0114				E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	0.000045	0.000045	U			E	0.0286	0.000043				E	0.161	0.0023				E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	0.000045	0.000045	U			E	0.0367	0.00022				E	0.214	0.0114				E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	0.000045	0.000045	U			E	0.0475	0.00022				E	0.296	0.0114				E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	0.000045	0.000045	U			E	0.116	0.00022				E	0.651	0.0114				E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	0.000045	0.000045	U			E	0.0034	0.000043				E	0.0216	0.0023				E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	0.000045	0.000045	U			E	0.0056	0.000043				E	0.0438	0.0023				E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	0.000045	0.000045	U				0.0054	0.000043					0.042	0.0023				
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	0.000045	0.000045	U				0.000051	0.000043	J				0.0023	0.0023	U			
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	0.000045	0.000045	U			E	0.0119	0.000043				E	0.105	0.0023				E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	0.000045	0.000045	U			E	0.019	0.00022				E	0.131	0.0114				E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	0.00006	0.000045	J			E	0.0383	0.000043				E	0.16	0.0023				E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	0.00007	0.000045	J			E	0.0312	0.000043				E	0.158	0.0023				E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	0.00008	0.000045	J			E	0.0324	0.000043				E	0.164	0.0023				E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	0.00011	0.000045	J			E	0.0387	0.000043				E	0.186	0.0023				E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	0.000075	0.000045	J			E	0.044	0.000043				E	0.301	0.0023				E
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	0.000085	0.000045	J				0.0418	0.000043					0.287	0.0023				
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	0.000045	0.000045	U				0.000078	0.000043	J				0.0023	0.0023	U			

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	0.0095	0.00014				E	0.00037	0.00003				E	0.119	0.00043				E	2.83	0.012				E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	0.0096	0.00014				E	0.00037	0.00003				E	0.125	0.00043				E	3.1	0.012				E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	0.0124	0.00014				E	0.0005	0.00003				E	0.226	0.00043				E	6.11	0.012				E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	0.0135	0.00014				E	0.00059	0.00003				E	0.25	0.00043				E	6.94	0.012				E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	0.0153	0.00014				E	0.00072	0.00003				E	0.301	0.00043				E	8.93	0.012				E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	0.0166	0.00014				E	0.00081	0.00003				E	0.341	0.00043				E	9.98	0.012				E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	0.0168	0.00014				E	0.00083	0.00003				E	0.348	0.00043				E	10.2	0.012				E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	0.0197	0.00014				E	0.0013	0.00003				E	0.494	0.00043				E	14.5	0.012				E
10565533	GG-CLV-C	SWSD0117-061021	10565533033	2021-06-10 14:49	AS	B	0.005	0.00014				E	0.0008	0.00003				E	0.0571	0.00043				E	0.486	0.012				E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	0.0458	0.00014				E	0.0027	0.00003				E	0.306	0.00043				E	30.5	0.012				E
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	0.0288	0.0007				E	0.0022	0.00015				E	0.224	0.0021				E	12.7	0.06				E
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	0.0412	0.0007				E	0.0035	0.00015				E	0.339	0.0021				E	20.1	0.06				E
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	0.0589	0.0007				E	0.0078	0.00015				E	0.593	0.0021				E	26.9	0.06				E
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	0.104	0.0007				E	0.0111	0.00015				E	0.885	0.0021				E	51.6	0.06				E
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	0.164	0.0007				E	0.0173	0.00015				E	1.76	0.0021	P6			E	98.5	0.06	P6			E
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	0.053	0.0007				E	0.0024	0.00015				E	0.319	0.0021				E	30	0.06				E
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	0.0172	0.0007				E	0.00076	0.00015		J	FD	S	0.258	0.0021				E	10.3	0.06				E
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	0.015	0.0007				E	0.00059	0.00015		J	FD	S	0.219	0.0021				E	8.75	0.06				E
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	0.0177	0.0007				E	0.00082	0.00015		J	FD	S	0.257	0.0021				E	10.6	0.06				E
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	0.0171	0.0007				E	0.00076	0.00015		J	FD	S	0.249	0.0021				E	10.3	0.06				E
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	0.019	0.0007				E	0.00091	0.00015		J	FD	S	0.287	0.0021				E	11.9	0.06	P6			E
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	0.023	0.0007				E	0.0012	0.00015		J	FD	S	0.357	0.0021				E	14.8	0.06				E
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	0.0198	0.0007					0.00089	0.00015		J	FD		0.294	0.0021					12.4	0.06				
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	0.000083	0.000083	U				0.000016	0.000016	J				0.0005	0.0005	U				0.0121	0.0121	U			
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	0.0175	0.00014				E	0.0006	0.00003				E	0.149	0.00043				E	2.63	0.012				E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	0.0177	0.00014				E	0.00067	0.00003				E	0.161	0.00043				E	2.4	0.012				E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	0.0246	0.00014				E	0.0011	0.00003				E	0.226	0.00043				E	5.05	0.012				E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	0.0269	0.00014				E	0.0015	0.00003				E	0.258	0.00043				E	6.88	0.012				E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	0.019	0.00014				E	0.00099	0.00003				E	0.185	0.00043				E	6.37	0.012				E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	0.0192	0.00014				E	0.001	0.00003				E	0.192	0.00043				E	7.67	0.012				E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	0.0258	0.00014				E	0.0016	0.00003				E	0.287	0.00043				E	12.2	0.012				E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	0.0256	0.00014				E	0.0019	0.00003				E	0.281	0.00043				E	11.7	0.012				E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	0.0275	0.00014					0.002	0.00003					0.304	0.00043					12.6	0.012				
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	0.0442	0.00014				E	0.0023	0.00003				E	0.28	0.00043				E	27.4	0.12	M1			E
10568970	GG-CLV-C	SWSD0144-070121	10568970026	2021-07-01 14:12	AS	B	0.22	0.0007				E	0.0161	0.00015				E	1.98	0.0021				E	33.4	0.06				E
10571347	BG-CLV-1	SWSD0145-072021	10571347001	2021-07-20 16:10	IS1-N	B	0.0678	0.00041				E	0.0075	0.00008				E	0.811	0.0025				E	39.3	0.0605		J	FD	S
10571347	BG-CLV-1	SWSD0146-072021	10571347002	2021-07-20 16:10	IS1-D	B	0.0792	0.00041					0.008	0.00008					0.922	0.0025					50.2	0.0605		J	FD	
10571347	SWQC	SWSD0147-072221	10571347003	2021-07-22 00:00	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.0005	0.0005	U				0.0121	0.0121	U			
10571347	GG-CLV-C	SWSD0148-072021	10571347004	2021-07-20 16:10	AS	B	0.0295	0.000083				E	0.0041	0.000016				E	0.221	0.0005				E	1.58	0.0121				E
10571347	GG-CLV-I	SWSD0149-072021	10571347005	2021-07-20 16:10	AS	B	1.03	0.00041				E	0.0335	0.00008				E	7.54	0.025				E	89.7	0.0605				E
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	0.0447	0.00041				E	0.0035	0.00008				E	0.342	0.0025				E	13.9	0.0605				E
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	0.049	0.00041				E	0.0048	0.00008				E	0.409	0.0025				E	18.9	0.0605				E
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	0.0479	0.00041				E	0.0049	0.00008				E	0.435	0.0025				E	25.7	0.0605				E
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	0.0146	0.00041				E	0.0012	0.00008				E	0.114	0.0025				E	7.16	0.0605				E
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	0.017	0.00041				E	0.0015	0.00008				E	0.175	0.0025				E	10.4	0.0605	P6			E
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	0.0295	0.00041				E	0.003	0.00008				E	0.32	0.0025				E	19.3	0.0605				E
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	0.0298	0.00041				E	0.0025	0.00008				E	0.301	0.0025				E	20.8	0.0605				E
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	0.0324	0.00041					0.0022	0.00008					0.332	0.0025					23.3	0.0605				
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.0005	0.0005	U				0.0121	0.0121	U			
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	2.76	0.0017				E	0.0251	0.00008				E	27.8	0.05				E	143	0.242				E
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	0.106	0.00041				E	0.0075	0.00008				E	0.778	0.0025	P6			E	69.1	0.0605				E
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	0.0606	0.00041				E	0.0038	0.00008				E	0.413	0.0025				E	36.4	0.0605				E
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	0.0568	0.00041				E	0.0034	0.00008				E	0.399	0.0025				E	37.5	0.0605				E
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	1.21	0.0017				E	0.0425	0.00032				E	7.51	0.025				E	77.9	0.242				E
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	0.878	0.00041				E	0.0323	0.00008				E	5.12	0.025				E	40.1	0.0605				E
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	0.868	0.00041				E	0.0441	0.00008				E	7.56	0.025				E	26.3	0.0605				E
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	1.7	0.00041				E	0.0829	0.00008				E	15.9	0.025				E	78.9	0.0605				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	0.000045	0.000045	U			E	0.0134	0.000043				E	0.0872	0.0023				E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	0.000045	0.000045	U			E	0.0147	0.000043				E	0.0923	0.0023				E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	0.000045	0.000045	U			E	0.0296	0.000043				E	0.161	0.0023				E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	0.000045	0.000045	U			E	0.0339	0.000043				E	0.177	0.0023				E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	0.000045	0.000045	U			E	0.0423	0.000043				E	0.224	0.0023				E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	0.000045	0.000045	U			E	0.0479	0.000043				E	0.251	0.0023				E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	0.000045	0.000045	U			E	0.0503	0.000043				E	0.264	0.0023				E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	0.000045	0.000045	U			E	0.0664	0.000043				E	0.402	0.0023				E
10565533	GG-CLV-C	SWSD0117-061021	10565533033	2021-06-10 14:49	AS	B	0.000045	0.000045	U			E	0.0038	0.000043				E	0.0555	0.0023				E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	0.000098	0.000045	J			E	0.234	0.000043				E	0.749	0.0023				E
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	0.00024	0.000045		J-	MS	S	0.3	0.00022				E	0.857	0.0114				E
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	0.00038	0.000045		J-	MS	S	0.481	0.00022				E	1.39	0.0114				E
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	0.0011	0.000045		J-	MS	S	1.06	0.00022				E	2.88	0.0985				E
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	0.002	0.000045		J-	MS	S	2.02	0.00022				E	4.3	0.0985				E
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	0.0019	0.000045	M1	J-	MS	S	2.23	0.0014	P6			E	6.77	0.0985	P6			E
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	0.00012	0.000045	J			E	0.221	0.00022				E	0.687	0.0114				E
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	0.000045	0.000045	J			E	0.0583	0.00022		J	FD	S	0.296	0.0114		J	FD	S
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	0.000045	0.000045	U			E	0.0517	0.00022		J	FD	S	0.26	0.0114		J	FD	S
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	0.000052	0.000045	J			E	0.0715	0.00022		J	FD	S	0.324	0.0114		J	FD	S
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	0.00005	0.000045	J			E	0.0712	0.00022		J	FD	S	0.32	0.0114		J	FD	S
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	0.000056	0.000045	J			E	0.0864	0.00022		J	FD	S	0.371	0.0114		J	FD	S
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	0.000072	0.000045	J			E	0.112	0.00022		J	FD	S	0.474	0.0114		J	FD	S
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	0.000056	0.000045	J				0.0906	0.00022		J	FD		0.383	0.0114		J	FD	
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	0.000045	0.000045	U				0.000092	0.000028	J				0.002	0.002	U			
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	0.000062	0.000045	J			E	0.0296	0.000043				E	0.152	0.0023				E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	0.000075	0.000045	J			E	0.0362	0.000043				E	0.181	0.0023				E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	0.00014	0.000045	J			E	0.0923	0.000043				E	0.31	0.0023				E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	0.00035	0.000045				E	0.169	0.000043				E	0.451	0.0229				E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	0.00039	0.000045				E	0.107	0.000043				E	0.342	0.0023				E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	0.00047	0.000045				E	0.117	0.000043				E	0.373	0.0023				E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	0.00068	0.000045				E	0.183	0.000043				E	0.559	0.0229				E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	0.00031	0.000045				E	0.222	0.000043				E	0.763	0.0229				E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	0.00032	0.000045					0.235	0.000043					0.787	0.0229				
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	0.000045	0.000045	U				0.000094	0.000043	J				0.0023	0.0023	U			
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	0.00015	0.000045	J			E	0.191	0.000043				E	0.71	0.0229				E
10568970	GG-CLV-C	SWSD0144-070121	10568970026	2021-07-01 14:12	AS	B	0.00016	0.00013	J			E	0.267	0.00022				E	1.95	0.0114				E
10571347	BG-CLV-1	SWSD0145-072021	10571347001	2021-07-20 16:10	IS1-N	B	0.0005	0.000045				E	0.86	0.00014	P6			E	3.22	0.0098	P6			E
10571347	BG-CLV-1	SWSD0146-072021	10571347002	2021-07-20 16:10	IS1-D	B	0.00056	0.000045					0.937	0.00014					3.5	0.0098				
10571347	SWQC	SWSD0147-072221	10571347003	2021-07-22 00:00	FB	B	0.000045	0.000045	U				0.000074	0.000028	J				0.002	0.002	U			
10571347	GG-CLV-C	SWSD0148-072021	10571347004	2021-07-20 16:10	AS	B	0.000045	0.000045	U			E	0.0108	0.000028				E	0.339	0.002				E
10571347	GG-CLV-I	SWSD0149-072021	10571347005	2021-07-20 16:10	AS	B	0.0012	0.000045				E	1.38	0.00014				E	9.71	0.0985				E
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	0.00055	0.000045				E	0.43	0.00014				E	1.69	0.0098				E
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	0.00082	0.000045				E	0.574	0.00014				E	2.12	0.0098				E
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	0.00057	0.000045				E	0.69	0.00014				E	2.08	0.0098				E
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	0.00017	0.000045	J			E	0.226	0.00014				E	0.523	0.0098				E
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	0.0002	0.000045				E	0.177	0.00014				E	0.631	0.0098	P6			E
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	0.00021	0.000045				E	0.319	0.00014				E	1.26	0.0098				E
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	0.00019	0.000045	J			E	0.219	0.00014				E	0.97	0.0098				E
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	0.00021	0.000045					0.234	0.00014					1	0.0098				
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	0.000045	0.000045	U				0.000072	0.000028	J				0.002	0.002	U			
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	0.002	0.000045				E	1.91	0.00014				E	9.53	0.197				E
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	0.0005	0.000045				E	0.664	0.00014				E	1.67	0.0098	P6			E
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	0.00032	0.000045				E	0.347	0.00014				E	0.898	0.0098				E
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	0.00023	0.000045				E	0.262	0.00014				E	0.924	0.0098				E
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	0.0015	0.000045				E	1.8	0.00057				E	10.7	0.0985				E
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	0.00073	0.000045				E	1.22	0.00014				E	9.3	0.0985				E
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	0.00046	0.000045				E	1.27	0.00014				E	11.7	0.0985				E
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	0.0013	0.000045				E	3.05	0.0014				E	19.4	0.0985				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	0.0139	0.00041				E	0.00076	0.00008				E	0.197	0.0025				E	7.68	0.0605				E
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	0.015	0.00041				E	0.00082	0.00008				E	0.213	0.005				E	9.47	0.121				E
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	0.027	0.00041				E	0.0015	0.00008				E	0.423	0.005				E	19	0.121				E
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	0.0276	0.00041				E	0.0016	0.00008				E	0.569	0.005				E	22.2	0.121				E
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	0.0416	0.00041				E	0.0024	0.00008				E	1.32	0.005				E	41.7	0.121				E
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	0.0502	0.00041				E	0.0033	0.00008				E	1.6	0.005				E	47	0.121				E
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	0.0578	0.00041					0.0039	0.00008					1.76	0.005					51.7	0.121				
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	0.000083	0.000083	U				0.000019	0.000016	J				0.0005	0.0005	U				0.0121	0.0121	U			
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	0.0522	0.00041				E	0.0009	0.00008				E	0.19	0.005				E	11.5	0.121				E
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	0.0537	0.00041				E	0.001	0.00008				E	0.217	0.005				E	13.6	0.121				E
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	0.0568	0.00041				E	0.0011	0.00008				E	0.226	0.005				E	13.9	0.121				E
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	0.0718	0.00041				E	0.0016	0.00008				E	0.276	0.005				E	16.9	0.121				E
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	0.0565	0.00041				E	0.0015	0.00008				E	0.318	0.005				E	19.9	0.121				E
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	0.102	0.00041				E	0.0036	0.00008				E	0.69	0.005				E	49.6	0.121				E
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	0.33	0.00041				E	0.0071	0.00008				E	1.82	0.005				E	104	0.121				E
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	0.0117	0.00041				E	0.00051	0.00008				E	0.0867	0.0025				E	2.76	0.0605				E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	0.0169	0.00041				E	0.0009	0.00008				E	0.159	0.005				E	6.82	0.121				E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	0.0151	0.000083				E	0.00071	0.000016				E	0.117	0.0005				E	2.14	0.0121				E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	0.0122	0.000083				E	0.0018	0.000016				E	0.0859	0.0005				E	1.1	0.0121				E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	0.0138	0.000083				E	0.00051	0.000016				E	0.105	0.0005				E	2.07	0.0121				E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	0.0141	0.000083				E	0.00063	0.000016				E	0.116	0.0005				E	2.97	0.0121				E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	0.0178	0.000083				E	0.00081	0.000016				E	0.14	0.0005				E	4.22	0.0121				E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	0.0289	0.000083				E	0.0018	0.000016				E	0.273	0.0005				E	9.64	0.0121				E
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	0.0359	0.000083				E	0.0015	0.000016				E	0.807	0.0005				E	22	0.0121				E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	0.059	0.000083				E	0.0023	0.000016				E	1.63	0.005				E	37.2	0.0121				E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	0.114	0.000083				E	0.0052	0.000016				E	3.39	0.005				E	68.9	0.121				E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	0.109	0.000083					0.005	0.000016					3.26	0.005					69.5	0.121				
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.0005	0.0005	U				0.0121	0.0121	U			
10573163	GG-CLV-C	SWSD0195-080121	10573163046	2021-08-01 17:40	AS	B	0.007	0.000083				E	0.00061	0.000016				E	0.0592	0.0005				E	0.926	0.0121				E
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	0.128	0.000083				E	0.0095	0.000016				E	0.959	0.005				E	79.4	0.121				E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	0.659	0.000083				E	0.0123	0.000016				E	3.15	0.005				E	55.6	0.121				E
10573163	MPTP-CLV-1	SWSD0198-080121	10573163049	2021-08-01 20:54	AS	B	0.222	0.000083				E	0.0073	0.000016				E	1.69	0.005				E	91.5	0.121				E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	0.0073	0.00041				E	0.00052	0.00008				E	0.0539	0.0025				E	2.12	0.0605		J+	FB	S
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	0.0072	0.00041				E	0.00062	0.00008				E	0.0564	0.0025				E	2.37	0.0605				E
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	0.0142	0.00041				E	0.0014	0.00008				E	0.138	0.0025				E	7.93	0.0605				E
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	0.0243	0.00041				E	0.0022	0.00008				E	0.231	0.0025				E	14.1	0.0605				E
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	0.0059	0.000083				E	0.00024	0.000016				E	0.0362	0.0005				E	1.92	0.0121		J+	FB	S
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	0.0119	0.00041				E	0.0005	0.00008				E	0.107	0.0025				E	7.39	0.0605				E
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	0.0132	0.00041				E	0.00041	0.00008				E	0.057	0.0025				E	4.24	0.0605				E
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	0.048	0.00041				E	0.0028	0.00008				E	0.334	0.0025				E	33.5	0.0605				E
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	0.0063	0.000083				E	0.00023	0.000016				E	0.0805	0.0005				E	2.52	0.0121				E
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	0.0078	0.000083				E	0.00034	0.000016				E	0.122	0.0005				E	3.96	0.0121				E
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	0.0194	0.00041				E	0.0012	0.00008				E	0.464	0.0025				E	15.3	0.0605	P6			E
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	0.0414	0.00041				E	0.0026	0.00008				E	1.01	0.0025				E	34.8	0.0605				E
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	0.11	0.0017				E	0.0081	0.00032				E	3.26	0.01				E	102	0.242				E
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	0.0597	0.00041				E	0.0038	0.00008				E	1.71	0.0025				E	46.8	0.0605				E
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	0.0645	0.00041					0.0044	0.00008					1.81	0.0025					50.8	0.0605				
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.00061	0.0005	J				0.218	0.0121				
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	0.0099	0.000083				E	0.00021	0.000016				E	0.0743	0.0005				E	1.26	0.0121				E
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	0.009	0.000083				E	0.0002	0.000016				E	0.0662	0.0005				E	1.4	0.0121				E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	0.0121	0.000083				E	0.00042	0.000016				E	0.141	0.0005				E	4.02	0.0121				E
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	0.0141	0.000083				E	0.00057	0.000016				E	0.187	0.0005				E	5.36	0.0121				E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	0.0145	0.000083				E	0.00062	0.000016				E	0.195	0.0005				E	5.72	0.0121				E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	0.0135	0.000083				E	0.00074	0.000016				E	0.141	0.0005				E	6.25	0.0121				E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	0.0129	0.000083				E	0.00087	0.000016				E	0.14	0.0005				E	7.04	0.0121				E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	0.0113	0.000083				E	0.00043	0.000016				E	0.218	0.0005				E	6.23	0.0121				E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	0.0262	0.000083				E	0.0012	0.000016				E	0.664	0.01				E	18.1	0.0121				E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	0.0588	0.000083				E	0.0031	0.000016				E	2.15	0.01				E	49.1	0.242				E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	0.0622	0.000083					0.0034	0.000016					2.24	0.01					52.8	0.242				
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.0005	0.0005	U				0.0121	0.0121	U			
10574254	GG-CLV-I	SWSD0227-080821	10574254029	2021-08-08 18:43	AS	B	0.131	0.000083				E	0.0067	0.000016				E	3.07	0.01				E	10.2	0.0121				E
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	0.0087	0.000083				E	0.00082	0.000016				E	0.0715	0.0005				E	3.45	0.0121				E
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	0.0098	0.000083				E	0.001	0.000016				E	0.0857	0.0005				E	4.44	0.0121				E
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	0.0132	0.000083				E	0.0013	0.000016				E	0.12	0.0005				E	6.59	0.0121				E
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	0.0075	0.000083				E	0.00064	0.000016				E	0.0811	0.0005				E	2.6	0.0121				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	0.000091	0.000054	J,R1	J	RPD	S	0.0532	0.00014				E	0.256	0.0098				E
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	0.00009	0.000054	J	J	RPD	S	0.0855	0.00014				E	0.294	0.0098				E
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	0.00015	0.000054	J	J	RPD	S	0.153	0.00014				E	0.579	0.0098				E
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	0.00013	0.000054	J	J	RPD	S	0.132	0.00014				E	0.644	0.0098				E
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	0.00022	0.000054	J	J	RPD	S	0.197	0.00014				E	1.06	0.0098				E
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	0.00031	0.000054		J	RPD	S	0.256	0.00014				E	1.31	0.0098				E
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	0.00042	0.000054		J	RPD		0.312	0.00014					1.59	0.0098				
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	0.000054	0.000054	U				0.000092	0.000028	J				0.002	0.002	U			
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	0.00015	0.000054	J			E	0.0846	0.00014				E	0.299	0.0098				E
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	0.00016	0.000054	J			E	0.094	0.00014				E	0.326	0.0098				E
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	0.00012	0.000054	J			E	0.109	0.00014				E	0.365	0.0098				E
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	0.00017	0.000054	J			E	0.154	0.00014				E	0.497	0.0098				E
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	0.00025	0.000054				E	0.129	0.00014				E	0.453	0.0098				E
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	0.0005	0.000054				E	0.269	0.00014				E	0.987	0.0098				E
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	0.0015	0.000054				E	0.452	0.00014				E	2.06	0.0197				E
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	0.00032	0.000054				E	0.056	0.00014				E	0.17	0.0098				E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	0.00043	0.000054				E	0.108	0.00014				E	0.362	0.0098				E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	0.000084	0.000045	J			E	0.0454	0.000028				E	0.198	0.002				E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	0.000055	0.000045	J			E	0.0221	0.000028				E	0.105	0.002				E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	0.0001	0.000045	J			E	0.0418	0.000028				E	0.154	0.002				E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	0.0002	0.000045	J			E	0.0624	0.000028				E	0.209	0.002				E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	0.00011	0.000045	J			E	0.105	0.000028				E	0.295	0.002				E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	0.00022	0.000045				E	0.209	0.000028				E	0.646	0.002				E
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	0.00011	0.000045	J			E	0.124	0.000028				E	0.536	0.002				E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	0.00019	0.000045	J			E	0.207	0.000028				E	0.9	0.002				E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	0.00033	0.000045				E	0.436	0.000028				E	1.82	0.0197				E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	0.00036	0.000045					0.414	0.000028					1.77	0.0197				
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	0.000045	0.000045	U				0.000095	0.000028	J				0.002	0.002	U			
10573163	GG-CLV-C	SWSD0195-080121	10573163046	2021-08-01 17:40	AS	B	0.000045	0.000045	U			E	0.0059	0.000028				E	0.0777	0.002				E
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	0.00042	0.000045				E	0.871	0.000028				E	2.32	0.0197				E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	0.00099	0.000045				E	0.836	0.000028				E	3.64	0.0197				E
10573163	MPTP-CLV-1	SWSD0198-080121	10573163049	2021-08-01 20:54	AS	B	0.00074	0.000045				E	0.512	0.000028				E	2.87	0.0197				E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	0.000048	0.000045	J			E	0.0587	0.00014				E	0.195	0.0098				E
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	0.000058	0.000045	J			E	0.0688	0.00014				E	0.226	0.0098				E
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	0.00012	0.000045	J			E	0.184	0.00014				E	0.575	0.0098				E
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	0.00019	0.000045	J			E	0.314	0.00014				E	1	0.0098				E
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	0.000045	0.000045	U			E	0.0122	0.000028				E	0.229	0.0098				E
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	0.000045	0.000045	U			E	0.0398	0.00014				E	0.51	0.0098				E
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	0.000045	0.000045	U			E	0.0384	0.00014				E	0.112	0.0098				E
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	0.00015	0.000045	J			E	0.246	0.00014				E	0.796	0.0098				E
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	0.000045	0.000045	U			E	0.0186	0.000028				E	0.072	0.002				E
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	0.000045	0.000045	U			E	0.03	0.000028				E	0.115	0.002				E
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	0.000071	0.000045	J			E	0.0971	0.00014				E	0.442	0.0098				E
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	0.00029	0.000045				E	0.228	0.00014				E	1.1	0.0098				E
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	0.00029	0.000045				E	0.674	0.00057				E	3.16	0.0394				E
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	0.00023	0.000045				E	0.326	0.00014				E	1.52	0.0098				E
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	0.00023	0.000045					0.369	0.00014					1.75	0.0098				
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	0.000045	0.000045	U				0.0001	0.000028					0.002	0.002	U			
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	0.000045	0.000045	U			E	0.0122	0.000028				E	0.0608	0.002				E
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	0.000045	0.000045	U			E	0.0119	0.000028				E	0.0599	0.002				E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	0.000049	0.000045	J			E	0.0335	0.000028				E	0.126	0.002				E
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	0.000082	0.000045	J			E	0.047	0.000028				E	0.174	0.002				E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	0.000083	0.000045	J			E	0.0493	0.000028				E	0.181	0.002				E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	0.00037	0.000045				E	0.0814	0.000028				E	0.245	0.002				E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	0.00021	0.000045				E	0.0742	0.000028				E	0.287	0.002				E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	0.000045	0.000045	U			E	0.0336	0.000028				E	0.141	0.002				E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	0.000097	0.000045	J			E	0.0943	0.000028				E	0.401	0.002				E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	0.00024	0.000045				E	0.237	0.000028				E	1.25	0.0394				E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	0.00024	0.000045					0.249	0.000028					1.32	0.0394				
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	0.000045	0.000045	U				0.00009	0.000028	J				0.002	0.002	U			
10574254	GG-CLV-I	SWSD0227-080821	10574254029	2021-08-08 18:43	AS	B	0.00077	0.000045				E	0.228	0.000028				E	2.43	0.0394				E
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	0.000062	0.000045	J			E	0.0968	0.000028				E	0.332	0.002				E
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	0.00008	0.000045	J			E	0.12	0.000028				E	0.412	0.002				E
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	0.000084	0.000045	J			E	0.149	0.000028				E	0.526	0.0394				E
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	0.000058	0.000045	J			E	0.0484	0.000028				E	0.253	0.002				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	0.0047	0.000083				E	0.00018	0.000016				E	0.0265	0.0005				E	1.34	0.0121				E
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	0.0057	0.000083				E	0.00021	0.000016				E	0.0364	0.0005				E	1.95	0.0121				E
10575529	GG-CLV-D	SWSD0234-081821	10575529007	2021-08-18 05:51	IS2	B	0.0141	0.000083				E	0.00077	0.000016				E	0.0967	0.0005				E	4.96	0.0121				E
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	0.0138	0.000083				E	0.00064	0.000016				E	0.0819	0.0005				E	4.27	0.0121				E
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	0.61	0.0017				E	0.015	0.000016				E	3.62	0.01				E	47.1	0.242				E
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	0.0108	0.000083				E	0.00057	0.000016				E	0.152	0.0005				E	6.44	0.0121				E
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	0.0379	0.000083				E	0.0025	0.000016				E	0.869	0.01	P6			E	31.1	0.242	P6			E
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	0.0404	0.000083					0.0028	0.000016					0.955	0.01					33.9	0.242				
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.0005	0.0005	U				0.0121	0.0121	U			
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	0.023	0.000083				E	0.00084	0.000016				E	0.438	0.01				E	12.5	0.0121				E
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	0.0228	0.000083				E	0.00089	0.000016				E	0.436	0.01				E	12.6	0.0121				E
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	0.0239	0.000083				E	0.0011	0.000016				E	0.523	0.01				E	14.1	0.0121				E
10575529	TX-HD-OUT	SWSD0244-081821	10575529017	2021-08-18 02:16	IS3	B	0.0223	0.00041				E	0.001	0.00008				E	0.585	0.0025	P6			E	15.4	0.0605	P6			E
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	0.0356	0.00041				E	0.0018	0.00008				E	0.884	0.0025				E	20.8	0.0605				E
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	0.0326	0.00041					0.0016	0.00008					0.854	0.0025					20.4	0.0605				
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.00051	0.0005	J				0.0121	0.0121	U			
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	0.0191	0.00041				E	0.001	0.00008				E	0.116	0.0025				E	9.22	0.0605				E
10575529	GG-CLV-I	SWSD0250-081821	10575529023	2021-08-18 01:43	AS	B	0.359	0.00041				E	0.0098	0.00008				E	2.08	0.0025				E	35.2	0.0605				E
10575529	MPTP-CLV-1	SWSD0251-081821	10575529024	2021-08-18 01:43	AS	B	0.0172	0.00041				E	0.00096	0.00008				E	0.196	0.0025				E	6.13	0.0605				E
10575529	GG-CLV-D	SWSD0252-082021	10575529025	2021-08-20 05:06	IS3	B	0.0084	0.000083				E	0.00023	0.000016				E	0.0384	0.0005				E	1.93	0.0121				E
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	0.0088	0.000083				E	0.00023	0.000016				E	0.0375	0.0005				E	1.95	0.0121				E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	0.0068	0.000083				E	0.0002	0.000016				E	0.0276	0.0005				E	1.49	0.0121				E
10575529	MPTP-CLV-1	SWSD0255-082021	10575529028	2021-08-20 02:53	AS	B	0.0055	0.00041				E	0.0004	0.00008				E	0.0329	0.0025	B			E	0.594	0.0605				E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	0.0103	0.000083				E	0.00086	0.000016				E	0.0771	0.0005				E	3.92	0.0121				E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		0.0101	0.000083				E	0.00099	0.000016				E	0.0806	0.0005				E	4.47	0.0121				E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	0.0093	0.000083				E	0.001	0.000016				E	0.0789	0.0005				E	4.09	0.0121				E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	0.0066	0.000083				E	0.00073	0.000016				E	0.0628	0.0005				E	3.27	0.0121				E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	0.0114	0.000083				E	0.00093	0.000016				E	0.0956	0.0005				E	5.09	0.0121				E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	0.0048	0.000083				E	0.00028	0.000016				E	0.0256	0.0005				E	1.58	0.0121				E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	0.005	0.000083				E	0.00021	0.000016				E	0.0252	0.0005				E	1.32	0.0121				E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	0.0101	0.000083				E	0.00072	0.000016				E	0.0282	0.0005				E	2.01	0.0121				E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	0.0298	0.000083				E	0.0015	0.000016				E	0.171	0.0005				E	17.1	0.0121				E
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	0.0068	0.000083				E	0.00027	0.000016				E	0.0892	0.0005				E	2.92	0.0121				E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	0.0058	0.000083				E	0.00027	0.000016				E	0.072	0.0005				E	2.74	0.0121				E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	0.0096	0.000083				E	0.00054	0.000016				E	0.158	0.0005				E	6.26	0.0121				E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	0.0146	0.000083				E	0.001	0.000016				E	0.299	0.0005				E	10.8	0.0121				E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	0.0091	0.000083				E	0.00033	0.000016				E	0.111	0.0005				E	4.18	0.0121				E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	0.0096	0.000083				E	0.00046	0.000016				E	0.195	0.0005				E	5.53	0.0121				E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	0.0103	0.000083					0.0005	0.000016					0.21	0.0005					6.58	0.0121				
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	0.000083	0.000083	U				0.000021	0.000016	J				0.0005	0.0005	U				0.0121	0.0121	U			
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	0.0189	0.000083				E	0.00057	0.000016				E	0.0723	0.0005				E	5.28	0.0121				E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	0.0187	0.000083				E	0.00067	0.000016				E	0.0903	0.0005				E	6.36	0.0121				E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	0.0181	0.000083				E	0.00069	0.000016				E	0.0815	0.0005				E	5.76	0.0121				E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	0.0275	0.000083				E	0.00093	0.000016				E	0.132	0.0005				E	10.1	0.0121	P6			E
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	0.0223	0.000083				E	0.00071	0.000016				E	0.369	0.0005				E	11.9	0.0121				E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	0.0208	0.000083				E	0.00066	0.000016				E	0.347	0.0005				E	11.3	0.0121				E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	0.0206	0.000083				E	0.00067	0.000016				E	0.348	0.0005				E	11.4	0.0121				E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	0.0192	0.000083				E	0.00066	0.000016				E	0.332	0.0005				E	10.9	0.0121				E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	0.0203	0.000083				E	0.0007	0.000016				E	0.347	0.0005				E	11.8	0.0121				E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	0.0404	0.000083				E	0.0012	0.000016				E	0.567	0.005				E	21	0.0121				E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	0.0675	0.000083				E	0.0015	0.000016				E	0.792	0.005				E	26.1	0.121				E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	0.0252	0.000083				E	0.00098	0.000016				E	0.46	0.005				E	16.2	0.0121				E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	0.0239	0.000083					0.00083	0.000016					0.446	0.0005					15.3	0.0121				
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	0.000083	0.000083	U				0.000023	0.000016	J,B				0.0005	0.0005	U				0.0121	0.0121	U			
10576049	GG-CLV-C	SWSD0287-082121	10576049032	2021-08-21 18:39	AS	B	0.0015	0.000083				E	0.00012	0.000016	B			E	0.018	0.0005				E	0.107	0.0121				E
10576049	GG-CLV-D	SWSD0288-082121	10576049033	2021-08-21 18:39	AS	B	0.0348	0.000083				E	0.0023	0.000016				E	0.228	0.0005	M1	J-	MS	S	21	0.121	P6			E
10576049	GG-CLV-I	SWSD0289-082121	10576049034	2021-08-21 18:39	AS	B	0.307	0.000083				E	0.0072	0.000016				E	1.62	0.005				E	23.6	0.121				E
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	0.0144	0.000083				E	0.002	0.000016				E	0.0743	0.0005				E	0.573	0.0121				E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	0.0147	0.000083				E	0.0021	0.000016				E	0.0775	0.0005				E	0.592	0.0121				E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	0.0133	0.000083				E	0.002	0.000016				E	0.0737	0.0005				E	0.535	0.0121				E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	0.0141	0.000083				E	0.0023	0.000016				E	0.0809	0.0005				E	0.569	0.0121				E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	0.0147	0.000083				E	0.0024	0.000016				E	0.0882	0.0005				E	0.871	0.0121				E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	0.015	0.000083					0.0025	0.000016					0.0918	0.0005					0.886	0.0121				
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.0005	0.0005	U				0.0121	0.0121	U			

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2a. BPSOU 2021 Diagnostic Water Quality Results - Total Recoverable

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnTR (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	0.000045	0.000045	U			E	0.0102	0.000028				E	0.139	0.002				E
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	0.000045	0.000045	U			E	0.0109	0.000028				E	0.186	0.002				E
10575529	GG-CLV-D	SWSD0234-081821	10575529007	2021-08-18 05:51	IS2	B							0.0398	0.000028				E	0.126	0.002				E
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	0.000053	0.000045	J			E	0.0342	0.000028				E	0.111	0.002				E
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	0.00087	0.000045				E	1.21	0.00057				E	5.32	0.0394				E
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	0.000045	0.000045	U			E	0.0608	0.000028		J+	MS	S	0.19	0.002				E
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	0.00015	0.000045	J			E	0.209	0.000028	M1	J+	MS	S	0.964	0.0394	P6			E
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	0.00021	0.000045					0.222	0.000028		J+	MS		1.06	0.0394				
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	0.000045	0.000045	U				0.00011	0.000028	B				0.002	0.002	U			
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	0.000066	0.000045	J			E	0.0705	0.000028				E	0.273	0.002				E
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	0.000068	0.000045	J			E	0.0707	0.000028				E	0.28	0.002				E
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	0.000088	0.000045	J			E	0.0822	0.000028				E	0.339	0.002				E
10575529	TX-HD-OUT	SWSD0244-081821	10575529017	2021-08-18 02:16	IS3	B	0.000069	0.000045	J			E	0.0791	0.00014				E	0.378	0.0098				E
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	0.000093	0.000045	J			E	0.136	0.00014				E	0.636	0.0098				E
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	0.00011	0.000045	J				0.124	0.00014					0.559	0.0098				
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	0.000045	0.000045	U				0.00012	0.000028					0.002	0.002	U			
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	0.000062	0.000045	J			E	0.087	0.00014				E	0.391	0.0098				E
10575529	GG-CLV-I	SWSD0250-081821	10575529023	2021-08-18 01:43	AS	B	0.00073	0.000045				E	0.535	0.00014				E	2.78	0.0394				E
10575529	MPTP-CLV-1	SWSD0251-081821	10575529024	2021-08-18 01:43	AS	B							0.0254	0.00014				E	2.49	0.0394				E
10575529	GG-CLV-D	SWSD0252-082021	10575529025	2021-08-20 05:06	IS3	B	0.000045	0.000045	U			E	0.0158	0.000028				E	0.0503	0.002				E
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	0.000045	0.000045	U			E	0.016	0.000028				E	0.0489	0.002				E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	0.000045	0.000045	U			E	0.0129	0.000028				E	0.0863	0.002				E
10575529	MPTP-CLV-1	SWSD0255-082021	10575529028	2021-08-20 02:53	AS	B							0.0031	0.00014	B			E	0.63	0.0098				E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	0.000045	0.000045	U			E	0.114	0.000028				E	0.35	0.002				E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		0.00005	0.000045	J			E	0.123	0.000028				E	0.391	0.002				E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	0.000045	0.000045	U			E	0.113	0.000028				E	0.379	0.002				E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	0.000045	0.000045	U			E	0.0753	0.000028				E	0.292	0.002				E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	0.000045	0.000045	U			E	0.103	0.000028				E	0.382	0.002				E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	0.000045	0.000045	U			E	0.0086	0.000028				E	0.288	0.002				E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	0.000045	0.000045	U			E	0.0069	0.000028				E	0.233	0.002				E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	0.000045	0.000045	U			E	0.0077	0.000028				E	1.61	0.0394				E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	0.00007	0.000045	J			E	0.136	0.000028				E	0.383	0.002				E
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	0.000045	0.000045	U			E	0.0289	0.000028				E	0.101	0.002				E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	0.000045	0.000045	U			E	0.0244	0.000028				E	0.0866	0.002				E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	0.000045	0.000045	U			E	0.0464	0.000028				E	0.192	0.002				E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	0.000045	0.000045	U			E	0.0871	0.000028				E	0.361	0.002				E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	0.000045	0.000045	U			E	0.0293	0.000028				E	0.128	0.002				E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	0.000045	0.000045	U			E	0.044	0.000028				E	0.196	0.002				E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	0.000045	0.000045	U				0.0468	0.000028					0.203	0.002				
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	0.000045	0.000045	U				0.0001	0.000028					0.002	0.002	U			
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	0.000045	0.000045	U			E	0.0693	0.000028				E	0.134	0.002				E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	0.000045	0.000045	U			E	0.0786	0.000028				E	0.157	0.002				E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	0.000045	0.000045	U			E	0.0749	0.000028				E	0.15	0.002				E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	0.00012	0.000045	J			E	0.0963	0.000028				E	0.238	0.0197	M1	J-	MS	S
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	0.000074	0.000045	J			E	0.0593	0.000028				E	0.218	0.0197				E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	0.000075	0.000045	J			E	0.0569	0.000028				E	0.198	0.0197	B			E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	0.000076	0.000045	J			E	0.0561	0.000028				E	0.195	0.0197	B			E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	0.000073	0.000045	J			E	0.0548	0.000028				E	0.208	0.0197				E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	0.00007	0.000045	J			E	0.0574	0.000028				E	0.201	0.0197				E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	0.00015	0.000045	J			E	0.1	0.000028				E	0.332	0.0197				E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	0.00024	0.000045				E	0.131	0.000028				E	0.443	0.0197				E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	0.0001	0.000045	J			E	0.0954	0.000028				E	0.372	0.0197				E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	0.00011	0.000045	J				0.0828	0.000028					0.322	0.0197				
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	0.000045	0.000045	U				0.000098	0.000028	J,B				0.0031	0.002	J,B			
10576049	GG-CLV-C	SWSD0287-082121	10576049032	2021-08-21 18:39	AS	B	0.000045	0.000045	U			E	0.00067	0.000028		J+	FB	S	0.0219	0.002		J+	FB	S
10576049	GG-CLV-D	SWSD0288-082121	10576049033	2021-08-21 18:39	AS	B	0.00014	0.000045	J			E	0.202	0.000028				E	0.656	0.0197	P6			E
10576049	GG-CLV-I	SWSD0289-082121	10576049034	2021-08-21 18:39	AS	B	0.00073	0.000045				E	0.412	0.000028				E	1.92	0.0197				E
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	0.000048	0.000045	J			E	0.0176	0.000028				E	0.458	0.002				E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	0.000045	0.000045	U			E	0.0184	0.000028				E	0.485	0.002				E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	0.000047	0.000045	J			E	0.0168	0.000028				E	0.466	0.002				E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	0.000045	0.000045	U			E	0.0177	0.000028				E	0.52	0.002				E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	0.000052	0.000045	J			E	0.0228	0.000028				E	0.585	0.002				E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	0.000056	0.000045	J				0.0233	0.000028					0.602	0.002				
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	0.000045	0.000045	U				0.000064	0.000028	J,B	UJ	MB		0.002	0.002	U			

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	0.011	0.00014				E	0.000069	0.00003	J			E	0.024	0.00043				E	0.083	0.012				E
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	0.011	0.00014					0.00008	0.00003					0.026	0.00043					0.099	0.012				
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	0.011	0.00014				E	0.000074	0.00003	J			E	0.025	0.00043				E	0.027	0.012	J			E
10560269	GG-CLV-D	SWSD0005-050721	10560269005	2021-05-07 17:20	FG	B	0.011	0.00014				E	0.00025	0.00003				E	0.03	0.00043				E	0.12	0.012				E
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	0.0042	0.00014				E	0.00026	0.00003				E	0.014	0.00043				E	0.012	0.012	U			E
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	0.004	0.00014				E	0.0002	0.00003				E	0.011	0.00043				E	0.033	0.012	J			E
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	0.0039	0.00014				E	0.00015	0.00003				E	0.012	0.00043				E	0.03	0.012	J			E
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	0.0032	0.00014				E	0.0001	0.00003				E	0.016	0.00043				E	0.053	0.012				E
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	0.0036	0.00014				E	0.0001	0.00003				E	0.018	0.00043				E	0.052	0.012				E
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	0.0043	0.00014				E	0.00013	0.00003				E	0.023	0.00043				E	0.053	0.012				E
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	0.0051	0.00014				E	0.00015	0.00003				E	0.021	0.00043				E	0.064	0.012				E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	0.0056	0.00014				E	0.000066	0.00003	J			E	0.028	0.00043				E	0.12	0.012				E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	0.0075	0.00014				E	0.00003	0.00003	U			E	0.014	0.00043				E	0.13	0.012				E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	0.007	0.00014				E	0.000039	0.00003	J			E	0.017	0.00043				E	0.099	0.012				E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	0.0071	0.00014					0.000045	0.00003	J				0.016	0.00043					0.1	0.012				
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	0.0067	0.00014				E	0.000079	0.00003	J			E	0.014	0.00043				E	0.13	0.012				E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	0.0043	0.00014				E	0.0001	0.00003				E	0.012	0.00043		J	FD	S	0.097	0.012				E
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	0.0063	0.00014				E	0.00032	0.00003				E	0.032	0.00043		J	FD	S	1.7	0.012				E
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	0.0037	0.00014				E	0.00014	0.00003				E	0.0097	0.00043		J	FD	S	0.023	0.012	J			E
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	0.0039	0.00014				E	0.00014	0.00003				E	0.011	0.00043		J	FD	S	0.13	0.012				E
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	0.0042	0.00014				E	0.00019	0.00003				E	0.011	0.00043		J	FD	S	0.057	0.012				E
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	0.0038	0.00014				E	0.0002	0.00003				E	0.013	0.00043		J	FD	S	0.018	0.012	J			E
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	0.0039	0.00014				E	0.00017	0.00003				E	0.014	0.00043		J	FD	S	0.017	0.012	J			E
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	0.0038	0.00014				E	0.00018	0.00003				E	0.013	0.00043		J	FD	S	0.014	0.012	J			E
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	0.0049	0.00014				E	0.00003	0.00003	U			E	0.0021	0.00043		J	FD	S	0.036	0.012	J			E
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	0.005	0.00014				E	0.00003	0.00003	U			E	0.0023	0.00043		J	FD	S	0.041	0.012	J			E
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	0.005	0.00014				E	0.00003	0.00003	U			E	0.003	0.00043		J	FD	S	0.038	0.012	J			E
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	0.0048	0.00014				E	0.00003	0.00003	U			E	0.0025	0.00043		J	FD	S	0.04	0.012	J			E
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	0.005	0.00014				E	0.00003	0.00003	U			E	0.0023	0.00043		J	FD	S	0.037	0.012	J			E
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	0.0049	0.00014				E	0.00003	0.00003	U			E	0.0028	0.00043		J	FD	S	0.038	0.012	J			E
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	0.0047	0.00014				E	0.00003	0.00003	U			E	0.0028	0.00043		J	FD	S	0.037	0.012	J			E
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	0.0047	0.00014				E	0.00003	0.00003	U			E	0.0022	0.00043		J	FD	S	0.025	0.012	J			E
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	0.0047	0.00014					0.00003	0.00003	U				0.0046	0.00043		J	FD		0.031	0.012	J			
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	0.012	0.00014				E	0.00011	0.00003				E	0.019	0.00043		J	FD	S	0.058	0.012				E
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	0.0074	0.00014				E	0.00003	0.00003	U			E	0.029	0.00043				E	0.27	0.012				E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	0.0062	0.00014				E	0.00003	0.00003	U			E	0.018	0.00043				E	0.058	0.012	B			E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	0.0057	0.00014				E	0.000034	0.00003	J			E	0.021	0.00043				E	0.087	0.012	B			E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	0.0041	0.00014				E	0.00003	0.00003	U			E	0.017	0.00043				E	0.078	0.012	B			E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	0.0044	0.00014				E	0.00003	0.00003	U			E	0.018	0.00043				E	0.088	0.012	B			E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	0.0047	0.00014					0.00003	0.00003	U				0.019	0.00043					0.099	0.012	B			
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10562410	GG-CLV-C	SWSD0049-052321	10562410028	2021-05-23 17:00	AS	B	0.0017	0.00014				E	0.00037	0.00003				E	0.012	0.00043				E	0.013	0.012	J,B			E
10562410	GG-CLV-D	SWSD0050-052321	10562410029	2021-05-23 17:00	AS	B	0.013	0.00014				E	0.00011	0.00003				E	0.019	0.00043				E	0.052	0.012	B			E
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		0.0054	0.00014				E	0.000054	0.00003	J			E	0.0054	0.00043		J+	FB	S	0.038	0.012	J			E
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		0.0028	0.00014				E	0.00007	0.00003	J			E	0.01	0.00043		J+	FB	S	0.68	0.012				E
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		0.002	0.00014				E	0.00003	0.00003	U			E	0.0043	0.00043		J+	FB	S	0.043	0.012	J			E
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		0.003	0.00014				E	0.000074	0.00003	J			E	0.0086	0.00043		J+	FB	S	0.049	0.012	J			E
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		0.004	0.00014				E	0.00012	0.00003				E	0.016	0.00043		J+	FB	S	0.092	0.012				E
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		0.0031	0.00014				E	0.000094	0.00003				E	0.014	0.00043		J+	FB	S	0.07	0.012				E
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		0.0032	0.00014				E	0.00014	0.00003				E	0.02	0.00043				E	0.14	0.012				E
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		0.0033	0.00014				E	0.00014	0.00003				E	0.01	0.00043		J+	FB	S	0.018	0.012	J			E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	0.000045	0.000045	U			E	0.00074	0.000043				E	0.005	0.0023				E
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	0.000045	0.000045	U				0.00088	0.000043					0.0057	0.0023				
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	0.000045	0.000045	U				0.000043	0.000043	U				0.0023	0.0023	U			
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	0.000045	0.000045	U			E	0.0002	0.000043				E	0.0054	0.0023				E
10560269	GG-CLV-D	SWSD0005-050721	10560269005	2021-05-07 17:20	FG	B	0.000045	0.000045	U			E	0.00094	0.000043				E	0.0069	0.0023				E
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	0.000045	0.000045	U			E	0.00011	0.000043				E	0.08	0.0023				E
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	0.000045	0.000045	U			E	0.00057	0.000043				E	0.043	0.0023				E
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	0.000045	0.000045	U			E	0.00048	0.000043				E	0.04	0.0023				E
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	0.000045	0.000045	U			E	0.0007	0.000043				E	0.035	0.0023				E
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	0.000045	0.000045	U			E	0.00071	0.000043				E	0.038	0.0023				E
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	0.000045	0.000045	U			E	0.00084	0.000043				E	0.043	0.0023				E
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	0.000045	0.000045	U			E	0.00096	0.000043				E	0.058	0.0023				E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	0.000045	0.000045	U			E	0.00068	0.000043				E	0.016	0.0023				E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	0.000045	0.000045	U			E	0.00052	0.000043				E	0.0091	0.0023				E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	0.000045	0.000045	U			E	0.00034	0.000043				E	0.011	0.0023				E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	0.000045	0.000045	U				0.00028	0.000043					0.011	0.0023				
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	0.000045	0.000045	U				0.000043	0.000043	U				0.0023	0.0023	U			
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	0.000045	0.000045	U			E	0.0012	0.000043				E	0.0062	0.0023				E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	0.000045	0.000045	U			E	0.0015	0.000043				E	0.026	0.0023				E
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	0.000045	0.000045	U			E	0.027	0.000043				E	0.12	0.0023				E
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	0.000045	0.000045	U			E	0.00033	0.000043				E	0.039	0.0023				E
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	0.000045	0.000045	U			E	0.0016	0.000043				E	0.039	0.0023				E
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	0.000045	0.000045	U			E	0.00071	0.000043				E	0.05	0.0023				E
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	0.000045	0.000045	U			E	0.00036	0.000043				E	0.055	0.0023				E
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	0.000045	0.000045	U			E	0.00034	0.000043				E	0.048	0.0023				E
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	0.000045	0.000045	U			E	0.00028	0.000043				E	0.062	0.0023				E
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	0.000045	0.000045	U			E	0.000043	0.000043	U			E	0.04	0.0023				E
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	0.000045	0.000045	U			E	0.000063	0.000043	J			E	0.039	0.0023				E
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	0.000045	0.000045	U			E	0.000043	0.000043	U			E	0.041	0.0023				E
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	0.000045	0.000045	U			E	0.000043	0.000043	U			E	0.044	0.0023				E
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	0.000045	0.000045	U			E	0.000043	0.000043	U			E	0.041	0.0023				E
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	0.000045	0.000045	U			E	0.000045	0.000043	J			E	0.042	0.0023				E
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	0.000045	0.000045	U			E	0.000072	0.000043	J			E	0.039	0.0023				E
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	0.000045	0.000045	U			E	0.000043	0.000043	U			E	0.04	0.0023				E
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	0.000045	0.000045	U				0.00014	0.000043					0.04	0.0023				
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	0.000045	0.000045	U				0.000043	0.000043	U				0.0023	0.0023	U			
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	0.000045	0.000045	U			E	0.00059	0.000043				E	0.0038	0.0023	J			E
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	0.000045	0.000045	U			E	0.0013	0.000043				E	0.012	0.0023				E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	0.000045	0.000045	U			E	0.00047	0.000043				E	0.0097	0.0023				E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	0.000045	0.000045	U			E	0.00056	0.000043				E	0.022	0.0023				E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	0.000045	0.000045	U			E	0.0004	0.000043				E	0.012	0.0023				E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	0.000045	0.000045	U			E	0.0004	0.000043				E	0.011	0.0023				E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	0.000045	0.000045	U				0.00041	0.000043					0.013	0.0023				
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	0.000045	0.000045	U				0.000043	0.000043	U				0.0023	0.0023	U			
10562410	GG-CLV-C	SWSD0049-052321	10562410028	2021-05-23 17:00	AS	B	0.000045	0.000045	U			E	0.00013	0.000043				E	0.035	0.0023				E
10562410	GG-CLV-D	SWSD0050-052321	10562410029	2021-05-23 17:00	AS	B	0.000045	0.000045	U			E	0.00064	0.000043				E	0.0039	0.0023	J			E
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		0.000045	0.000045	U			E	0.00067	0.000043		J+	FB	S	0.0093	0.0023				E
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		0.000045	0.000045	U			E	0.0076	0.000043				E	0.027	0.0023				E
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		0.000045	0.000045	U			E	0.00065	0.000043		J+	FB	S	0.0079	0.0023				E
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		0.000045	0.000045	U			E	0.00069	0.000043		J+	FB	S	0.026	0.0023				E
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		0.000045	0.000045	U			E	0.00098	0.000043				E	0.038	0.0023				E
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		0.000045	0.000045	U			E	0.001	0.000043				E	0.033	0.0023				E
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		0.000045	0.000045	U			E	0.0016	0.000043				E	0.055	0.0023				E
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		0.000045	0.000045	U			E	0.00041	0.000043		J+	FB	S	0.045	0.0023				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		0.013	0.00014				E	0.000061	0.00003	J			E	0.021	0.00043				E	0.19	0.012				E
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		0.004	0.00014				E	0.000044	0.00003	J			E	0.016	0.00043		J+	FB	S	0.2	0.012				E
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		0.0049	0.00014				E	0.00013	0.00003				E	0.031	0.00043				E	1.1	0.012				E
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		0.0037	0.00014				E	0.000055	0.00003	J			E	0.016	0.00043		J+	FB	S	0.13	0.012				E
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		0.0044	0.00014				E	0.000066	0.00003	J			E	0.022	0.00043				E	0.46	0.012				E
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		0.004	0.00014				E	0.000065	0.00003	J			E	0.022	0.00043				E	0.62	0.012				E
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		0.0031	0.00014				E	0.000042	0.00003	J			E	0.014	0.00043		J+	FB	S	0.12	0.012				E
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		0.0031	0.00014					0.000034	0.00003	J				0.013	0.00043		J+	FB		0.13	0.012				
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		0.00014	0.00014	U				0.00003	0.00003	U				0.0017	0.00043					0.012	0.012	U			
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		0.0065	0.00014				E	0.00013	0.00003				E	0.022	0.00043				E	0.12	0.012				E
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		0.0069	0.00014				E	0.00011	0.00003				E	0.034	0.00043				E	0.2	0.012				E
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		0.007	0.00014				E	0.00011	0.00003				E	0.036	0.00043				E	0.39	0.012				E
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		0.0068	0.00014				E	0.000095	0.00003				E	0.032	0.00043				E	0.17	0.012				E
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		0.0066	0.00014				E	0.00011	0.00003				E	0.033	0.00043				E	0.23	0.012				E
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		0.0079	0.00014				E	0.0002	0.00003				E	0.05	0.00043				E	0.93	0.012				E
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		0.0052	0.00014				E	0.00013	0.00003				E	0.022	0.00043				E	0.14	0.012				E
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		0.0054	0.00014				E	0.00016	0.00003				E	0.03	0.00043				E	0.4	0.012				E
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		0.0053	0.00014					0.00015	0.00003					0.028	0.00043					0.36	0.012				
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		0.0071	0.00014				E	0.000051	0.00003	J			E	0.035	0.00043				E	0.38	0.012				E
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		0.006	0.00014				E	0.000072	0.00003	J			E	0.035	0.00043				E	0.33	0.012				E
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		0.0087	0.00014				E	0.000063	0.00003	J			E	0.039	0.00043				E	0.69	0.012				E
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	0.0039	0.00014				E	0.00092	0.00003				E	0.022	0.00043				E	0.12	0.012				E
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	0.0038	0.00014				E	0.00027	0.00003				E	0.023	0.00043				E	0.094	0.012				E
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	0.004	0.00014				E	0.00028	0.00003				E	0.022	0.00043				E	0.13	0.012				E
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	0.0044	0.00014				E	0.00024	0.00003				E	0.025	0.00043				E	0.09	0.012				E
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	0.0082	0.00014				E	0.0003	0.00003				E	0.043	0.00043				E	0.27	0.012				E
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	0.0089	0.00014				E	0.000067	0.00003	J			E	0.011	0.00043				E	0.016	0.012	J			E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	0.0097	0.00014				E	0.00011	0.00003				E	0.042	0.00043				E	0.088	0.012				E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	0.0037	0.00014				E	0.000076	0.00003	J			E	0.031	0.00043				E	0.11	0.012				E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	0.0036	0.00014				E	0.000095	0.00003				E	0.04	0.00043				E	0.12	0.012				E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	0.0035	0.00014				E	0.0001	0.00003				E	0.043	0.00043				E	0.11	0.012				E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	0.0073	0.00014				E	0.000035	0.00003	J			E	0.017	0.00043				E	0.73	0.012				E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	0.0091	0.00014				E	0.00003	0.00003	U			E	0.0024	0.00043				E	2.7	0.012				E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	0.006	0.00014				E	0.000083	0.00003				E	0.023	0.00043				E	0.18	0.012				E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	0.0062	0.00014					0.000091	0.00003					0.024	0.00043					0.18	0.012				
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	0.0085	0.00014				E	0.00026	0.00003				E	0.053	0.00043				E	0.093	0.012				E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	0.0081	0.00014				E	0.00028	0.00003				E	0.055	0.00043				E	0.091	0.012				E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	0.0079	0.00014				E	0.00026	0.00003				E	0.06	0.00043				E	0.1	0.012				E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	0.0064	0.00014				E	0.00022	0.00003				E	0.04	0.00043				E	0.2	0.012				E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	0.006	0.00014				E	0.00019	0.00003				E	0.039	0.00043				E	0.093	0.012				E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	0.0062	0.00014				E	0.0002	0.00003				E	0.041	0.00043				E	0.097	0.012				E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	0.0061	0.00014				E	0.00026	0.00003				E	0.041	0.00043				E	0.11	0.012				E
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	0.0059	0.00014					0.00024	0.00003					0.039	0.00043					0.092	0.012				
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	U			
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	0.0057	0.00014				E	0.00016	0.00003				E	0.037	0.00043				E	0.18	0.012				E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	0.0054	0.00014				E	0.00012	0.00003				E	0.035	0.00043				E	0.13	0.012				E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	0.0051	0.00014				E	0.00012	0.00003				E	0.039	0.00043				E	0.081	0.012				E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	0.005	0.00014				E	0.00013	0.00003				E	0.038	0.00043				E	0.09	0.012				E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	0.005	0.00014				E	0.00013	0.00003				E	0.039	0.00043				E	0.09	0.012				E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	0.0048	0.00014				E	0.00015	0.00003				E	0.038	0.00043				E	0.08	0.012				E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	0.0049	0.00014				E	0.00015	0.00003				E	0.039	0.00043				E	0.087	0.012				E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	0.0046	0.00014				E	0.00022	0.00003				E	0.048	0.00043				E	0.072	0.012				E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	0.0078	0.00014				E	0.00011	0.00003				E	0.029	0.00043				E	0.13	0.012				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		0.000045	0.000045	U			E	0.0014	0.000043				E	0.0064	0.0023				E
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		0.000045	0.000045	U			E	0.0014	0.000043				E	0.011	0.0023				E
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		0.000045	0.000045	U			E	0.0075	0.000043				E	0.033	0.0023				E
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		0.000045	0.000045	U			E	0.00095	0.000043				E	0.0077	0.0023				E
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		0.000045	0.000045	U			E	0.003	0.000043				E	0.016	0.0023				E
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		0.000045	0.000045	U			E	0.0037	0.000043				E	0.021	0.0023				E
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		0.000045	0.000045	U			E	0.00074	0.000043		J+	FB	S	0.011	0.0023				E
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		0.000045	0.000045	U				0.00072	0.000043		J+	FB		0.011	0.0023				
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		0.000045	0.000045	U				0.000082	0.000043	J				0.0023	0.0023	U			
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		0.000045	0.000045	U			E	0.00083	0.000043				E	0.023	0.0023				E
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		0.000045	0.000045	U			E	0.001	0.000043				E	0.022	0.0023				E
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		0.000045	0.000045	U			E	0.002	0.000043				E	0.026	0.0023				E
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		0.000045	0.000045	U			E	0.0012	0.000043				E	0.021	0.0023				E
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		0.000045	0.000045	U			E	0.0015	0.000043				E	0.024	0.0023				E
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		0.000045	0.000045	U			E	0.0087	0.000043				E	0.056	0.0023				E
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		0.000045	0.000045	U			E	0.0014	0.000043				E	0.028	0.0023				E
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		0.000045	0.000045	U			E	0.0031	0.000043				E	0.043	0.0023				E
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		0.000045	0.000045	U				0.0029	0.000043					0.041	0.0023				
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		0.000045	0.000045	U				0.000043	0.000043	U				0.0023	0.0023	U			
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		0.000045	0.000045	U			E	0.0014	0.000043				E	0.012	0.0023				E
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		0.000045	0.000045	U			E	0.0014	0.000043				E	0.026	0.0023				E
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		0.000045	0.000045	U			E	0.0027	0.000043				E	0.02	0.0023				E
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	0.000045	0.000045	U			E	0.0015	0.000043				E	0.096	0.0023				E
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	0.000045	0.000045	U			E	0.0012	0.000043				E	0.091	0.0023				E
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	0.000045	0.000045	U			E	0.0022	0.000043				E	0.093	0.0023				E
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	0.000045	0.000045	U			E	0.0017	0.000043				E	0.12	0.0023				E
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	0.000045	0.000045	U			E	0.0058	0.000043				E	0.13	0.0023				E
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	0.000045	0.000045	U			E	0.000073	0.000043	J			E	0.07	0.0023				E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	0.000045	0.000045	U			E	0.00075	0.000043				E	0.0098	0.0023				E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	0.000045	0.000045	U			E	0.00076	0.000043				E	0.026	0.0023				E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	0.000045	0.000045	U			E	0.00096	0.000043				E	0.038	0.0023				E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	0.000045	0.000045	U			E	0.00063	0.000043				E	0.038	0.0023				E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	0.000045	0.000045	U			E	0.0011	0.000043				E	0.032	0.0023				E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	0.000045	0.000045	U			E	0.00017	0.000043				E	0.0025	0.0023	J			E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	0.000045	0.000045	U			E	0.00057	0.000043				E	0.017	0.0023				E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	0.000045	0.000045	U				0.00055	0.000043					0.019	0.0023				
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	0.000045	0.000045	U				0.000043	0.000043	U				0.0023	0.0023	U			
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	0.000045	0.000045	U			E	0.00073	0.000043				E	0.051	0.0023				E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	0.000045	0.000045	U			E	0.00084	0.000043				E	0.052	0.0023				E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	0.000045	0.000045	U			E	0.002	0.000043				E	0.056	0.0023				E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	0.000045	0.000045	U			E	0.0022	0.000043				E	0.051	0.0023				E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	0.000045	0.000045	U			E	0.0011	0.000043				E	0.051	0.0023				E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	0.000045	0.000045	U			E	0.0011	0.000043				E	0.049	0.0023				E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	0.000045	0.000045	U			E	0.0012	0.000043				E	0.11	0.0023				E
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	0.000045	0.000045	U				0.001	0.000043					0.11	0.0023				
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	0.000045	0.000045	U				0.000043	0.000043	U				0.0023	0.0023	U			
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	0.000045	0.000045	U			E	0.00085	0.000043				E	0.019	0.0023				E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	0.000045	0.000045	U			E	0.00064	0.000043				E	0.019	0.0023				E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	0.000045	0.000045	U			E	0.00044	0.000043				E	0.018	0.0023				E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	0.000045	0.000045	U			E	0.0005	0.000043				E	0.018	0.0023				E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	0.000045	0.000045	U			E	0.00052	0.000043				E	0.017	0.0023				E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	0.000045	0.000045	U			E	0.00046	0.000043				E	0.017	0.0023				E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	0.000045	0.000045	U			E	0.00052	0.000043				E	0.017	0.0023				E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	0.000045	0.000045	U			E	0.00043	0.000043				E	0.026	0.0023				E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	0.000045	0.000045	U			E	0.001	0.000043				E	0.015	0.0023				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	0.0075	0.00014				E	0.00035	0.00003				E	0.034	0.00043		J+	FB	S	0.11	0.012				E
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	0.0079	0.00014				E	0.00026	0.00003				E	0.031	0.00043		J+	FB	S	0.099	0.012				E
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	0.0081	0.00014				E	0.00037	0.00003				E	0.026	0.00043		J+	FB	S	0.12	0.012				E
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	0.0072	0.00014				E	0.00026	0.00003				E	0.025	0.00043		J+	FB	S	0.13	0.012				E
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	0.012	0.00014				E	0.00015	0.00003				E	0.013	0.00043		J+	FB	S	0.24	0.012				E
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	0.011	0.00014				E	0.00014	0.00003				E	0.05	0.00043		J+	FB	S	0.067	0.012				E
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	0.0063	0.00014				E	0.00013	0.00003				E	0.03	0.00043		J+	FB	S	0.22	0.012				E
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	0.0062	0.00014				E	0.00014	0.00003				E	0.034	0.00043		J+	FB	S	0.32	0.012				E
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	0.0058	0.00014				E	0.00012	0.00003				E	0.025	0.00043		J+	FB	S	0.22	0.012				E
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	0.0056	0.00014				E	0.00011	0.00003				E	0.023	0.00043		J+	FB	S	0.19	0.012				E
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	0.0056	0.00014				E	0.00012	0.00003				E	0.023	0.00043		J+	FB	S	0.18	0.012				E
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	0.0057	0.00014				E	0.00011	0.00003				E	0.023	0.00043		J+	FB	S	0.17	0.012				E
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	0.0058	0.00014					0.00011	0.00003					0.023	0.00043		J+	FB		0.18	0.012				
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.0055	0.00043					0.015	0.012	J			
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	0.013	0.00014				E	0.00034	0.00003				E	0.068	0.00043				E	0.076	0.012				E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	0.013	0.00014				E	0.00036	0.00003				E	0.069	0.00043				E	0.16	0.012				E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	0.015	0.00014				E	0.00048	0.00003				E	0.067	0.00043				E	0.23	0.012				E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	0.011	0.00014				E	0.0005	0.00003				E	0.056	0.00043				E	0.073	0.012				E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	0.0092	0.00014				E	0.00036	0.00003				E	0.046	0.00043				E	0.11	0.012				E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	0.008	0.00014				E	0.00032	0.00003				E	0.044	0.00043				E	0.058	0.012				E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	0.0087	0.00014				E	0.00025	0.00003				E	0.04	0.00043				E	0.1	0.012				E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	0.0066	0.00014				E	0.00032	0.00003				E	0.053	0.00043				E	0.046	0.012	J			E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	0.0066	0.00014					0.0003	0.00003					0.051	0.00043					0.048	0.012	J			
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	0.00014	0.00014	U				0.00003	0.00003	U				0.00043	0.00043	U				0.012	0.012	J			
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	0.0088	0.00014				E	0.0002	0.00003				E	0.043	0.00043				E	0.072	0.012				E
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	0.012	0.000083				E	0.00026	0.000016				E	0.033	0.0005				E	0.17	0.012				E
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	0.0096	0.000083				E	0.00019	0.000016				E	0.025	0.0005				E	0.073	0.012				E
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	0.007	0.000083				E	0.00013	0.000016				E	0.019	0.0005				E	0.068	0.012				E
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	0.005	0.000083				E	0.00022	0.000016				E	0.022	0.0005				E	0.051	0.012				E
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	0.0048	0.000083				E	0.000097	0.000016				E	0.019	0.0005				E	0.042	0.012	J			E
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	0.0057	0.000083				E	0.000086	0.000016				E	0.021	0.0005				E	0.13	0.012				E
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	0.0059	0.000083				E	0.00016	0.000016				E	0.017	0.0005				E	0.14	0.012				E
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	0.0061	0.000083					0.00016	0.000016					0.017	0.0005					0.16	0.012				
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.0012	0.0005					0.012	0.012	U			
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	0.054	0.000083				E	0.012	0.000016				E	2.4	0.005				E	0.22	0.012				E
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	0.015	0.000083				E	0.00011	0.000016				E	0.027	0.0005				E	0.066	0.012				E
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	0.016	0.000083				E	0.00017	0.000016				E	0.039	0.0005				E	0.07	0.012				E
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	0.013	0.000083				E	0.00019	0.000016				E	0.051	0.0005				E	0.24	0.012				E
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	0.12	0.000083				E	0.013	0.000016				E	0.55	0.0005				E	0.089	0.012				E
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	0.13	0.000083				E	0.013	0.000016				E	0.58	0.0005				E	0.09	0.012				E
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	0.13	0.000083				E	0.012	0.000016				E	0.55	0.0005				E	0.1	0.012				E
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	0.13	0.000083				E	0.011	0.000016				E	0.58	0.0005				E	0.33	0.012				E
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	0.0053	0.000083				E	0.000086	0.000016				E	0.026	0.0005				E	0.12	0.012				E
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	0.0076	0.000083				E	0.00025	0.000016				E	0.058	0.0005				E	2.3	0.012				E
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	0.0055	0.000083				E	0.000074	0.000016	J			E	0.012	0.0005				E	0.12	0.012				E
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	0.0047	0.000083				E	0.00004	0.000016	J			E	0.017	0.0005				E	0.087	0.012				E
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	0.0074	0.000083				E	0.000036	0.000016	J			E	0.0088	0.0005				E	0.56	0.012				E
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	0.0072	0.000083				E	0.000024	0.000016	J			E	0.0077	0.0005				E	0.35	0.012				E
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	0.0071	0.000083					0.000024	0.000016	J				0.008	0.0005					0.32	0.012				
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	0.000083	0.000083	U				0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	0.019	0.000083				E	0.000088	0.000016				E	0.018	0.0005				E	0.091	0.012				E
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	0.019	0.000083				E	0.000075	0.000016	J			E	0.017	0.0005				E	0.065	0.012				E
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	0.02	0.000083				E	0.000071	0.000016	J			E	0.019	0.0005				E	0.064	0.012				E
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	0.022	0.000083				E	0.000088	0.000016				E	0.021	0.0005				E	0.058	0.012				E
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	0.02	0.000083				E	0.00013	0.000016				E	0.032	0.0005				E	0.74	0.012				E
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	0.017	0.000083				E	0.000078	0.000016	J			E	0.029	0.0005				E	0.09	0.012				E
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	0.081	0.000083				E	0.000088	0.000016				E	0.083	0.0005				E	0.65	0.012				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	0.000045	0.000045	U			E	0.0034	0.000043				E	0.049	0.002				E
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	0.000045	0.000045	U			E	0.003	0.000043				E	0.037	0.002				E
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	0.000045	0.000045	U			E	0.0097	0.000043				E	0.075	0.002				E
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	0.000045	0.000045	U			E	0.0054	0.000043				E	0.039	0.002				E
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	0.000045	0.000045	U			E	0.0071	0.000043				E	0.06	0.002				E
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	0.000045	0.000045	U			E	0.00061	0.000043		J+	FB	S	0.016	0.002				E
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	0.000045	0.000045	U			E	0.0012	0.000043		J+	FB	S	0.042	0.002				E
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	0.000045	0.000045	U			E	0.002	0.000043				E	0.047	0.002				E
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	0.000045	0.000045	U			E	0.0015	0.000043				E	0.045	0.002				E
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	0.000045	0.000045	U			E	0.0014	0.000043		J+	FB	S	0.047	0.002				E
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	0.000045	0.000045	U			E	0.0014	0.000043		J+	FB	S	0.045	0.002				E
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	0.000045	0.000045	U			E	0.0014	0.000043		J+	FB	S	0.047	0.002				E
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	0.000045	0.000045	U				0.0014	0.000043		J+	FB		0.048	0.002				
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	0.000045	0.000045	U				0.00014	0.000043					0.0024	0.002	J			
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	0.000045	0.000045	U			E	0.0011	0.000043				E	0.054	0.0023				E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	0.000045	0.000045	U			E	0.0022	0.000043				E	0.059	0.0023				E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	0.000045	0.000045	U			E	0.0043	0.000043				E	0.066	0.0023				E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	0.000045	0.000045	U			E	0.0022	0.000043				E	0.061	0.0023				E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	0.000045	0.000045	U			E	0.0028	0.000043				E	0.061	0.0023				E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	0.000045	0.000045	U			E	0.0017	0.000043				E	0.051	0.0023				E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	0.000045	0.000045	U			E	0.0023	0.000043				E	0.056	0.0023				E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	0.000045	0.000045	U			E	0.0014	0.000043				E	0.065	0.0023				E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	0.000045	0.000045	U				0.0014	0.000043					0.064	0.0023				
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	0.000045	0.000045	U				0.000043	0.000043	U				0.0023	0.0023	U			
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	0.000045	0.000045	U			E	0.00076	0.000043				E	0.052	0.0023				E
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	0.000055	0.000045	J,B			E	0.0063	0.000028				E	0.042	0.002				E
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	0.000046	0.000045	J,B			E	0.0028	0.000028				E	0.022	0.002				E
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	0.000045	0.000045	U			E	0.0034	0.000028				E	0.018	0.002				E
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	0.000057	0.000045	J,B			E	0.003	0.000028				E	0.038	0.002				E
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	0.000053	0.000045	J,B			E	0.0017	0.000028				E	0.038	0.002				E
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	0.000061	0.000045	J,B			E	0.0022	0.000028				E	0.057	0.002				E
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	0.000058	0.000045	J,B			E	0.002	0.000028				E	0.041	0.002				E
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	0.000053	0.000045	J,B				0.0022	0.000028					0.046	0.002				
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	0.000045	0.000045	J,B				0.000029	0.000028	J				0.002	0.002	U			
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	0.000045	0.000045	U			E	0.0037	0.000028				E	2.6	0.02				E
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	0.000045	0.000045	U			E	0.0016	0.000028				E	0.0057	0.002				E
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	0.000054	0.000045	J,B			E	0.0016	0.000028				E	0.0083	0.002				E
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	0.000051	0.000045	J,B			E	0.0022	0.000028				E	0.019	0.002				E
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	0.000085	0.000045	J,B			E	0.0024	0.000028				E	5.7	0.02				E
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	0.000071	0.000045	J,B			E	0.0031	0.000028				E	5.6	0.02				E
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	0.000074	0.000045	J,B			E	0.003	0.000028				E	5.5	0.02				E
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	0.000083	0.000045	J,B			E	0.0068	0.000028				E	5.1	0.02				E
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	0.000045	0.000045	U			E	0.0021	0.000028				E	0.023	0.002				E
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	0.000048	0.000045	J			E	0.022	0.000028				E	0.087	0.002				E
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	0.000045	0.000045	U			E	0.0026	0.000028				E	0.028	0.002				E
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	0.000045	0.000045	U			E	0.00083	0.000028				E	0.017	0.002				E
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	0.000045	0.000045	U			E	0.0014	0.000028				E	0.011	0.002				E
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	0.000045	0.000045	U			E	0.0011	0.000028				E	0.0077	0.002				E
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	0.000045	0.000045	U				0.0011	0.000028					0.0057	0.002				
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	0.000045	0.000045	U				0.000031	0.000028	J				0.002	0.002	U			
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	0.000045	0.000045	U			E	0.00084	0.000028				E	0.0053	0.002				E
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	0.000045	0.000045	U			E	0.00069	0.000028				E	0.0039	0.002	J			E
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	0.000045	0.000045	U			E	0.00072	0.000028				E	0.0045	0.002	J			E
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	0.000045	0.000045	U			E	0.00068	0.000028				E	0.0038	0.002	J			E
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	0.000045	0.000045	U			E	0.0055	0.000028				E	0.019	0.002				E
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	0.000045	0.000045	U			E	0.00088	0.000028				E	0.0044	0.002	J			E
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	0.000054	0.000045	J			E	0.0025	0.000028				E	0.018	0.002				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	0.0074	0.00008				E	0.00013	0.000016				E	0.03	0.0005				E	0.065	0.012				E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	0.0058	0.00008				E	0.0001	0.000016				E	0.023	0.0005				E	0.057	0.012				E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	0.011	0.00008				E	0.00026	0.000016				E	0.06	0.0005				E	0.042	0.012	J,B			E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	0.012	0.00008				E	0.0016	0.000016				E	0.071	0.0005				E	0.063	0.012	B			E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	0.0091	0.00008				E	0.00024	0.000016				E	0.049	0.0005				E	0.1	0.012	B			E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	0.0096	0.00008				E	0.0003	0.000016				E	0.054	0.0005				E	0.3	0.012				E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	0.0092	0.00008				E	0.00025	0.000016				E	0.05	0.0005				E	0.098	0.012	B			E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	0.0096	0.00008				E	0.00035	0.000016				E	0.049	0.0005				E	0.035	0.012	J,B			E
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	0.0067	0.00008				E	0.00011	0.000016				E	0.057	0.0005				E	0.068	0.012	B			E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	0.0068	0.00008				E	0.00011	0.000016				E	0.048	0.0005				E	0.073	0.012	B			E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	0.014	0.00008				E	0.000023	0.000016	J			E	0.013	0.0005				E	0.43	0.012				E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	0.014	0.00008					0.000016	0.000016	U				0.014	0.0005					0.43	0.012				
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	0.00008	0.00008	U				0.000016	0.000016	U				0.00055	0.0005	J				0.012	0.012	U			
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	0.011	0.00008				E	0.000071	0.000016	J			E	0.019	0.0005				E	0.069	0.012	B			E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	0.11	0.00008				E	0.0017	0.000016				E	0.53	0.005				E	0.18	0.012				E
10573163	MPTP-CLV-1	SWSD0198-080121	10573163049	2021-08-01 20:54	AS	B	0.026	0.00008				E	0.0001	0.000016				E	0.027	0.0005				E	0.062	0.012	B			E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	0.0036	0.00008				E	0.00013	0.000016				E	0.015	0.0005				E	0.048	0.012	J			E
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	0.0032	0.00008				E	0.00012	0.000016				E	0.0097	0.0005				E	0.046	0.012	J			E
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	0.0027	0.00008				E	0.00012	0.000016				E	0.013	0.0005				E	0.045	0.012	J			E
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	0.0031	0.00008				E	0.00014	0.000016				E	0.019	0.0005				E	0.058	0.012				E
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	0.0039	0.00008				E	0.00015	0.000016				E	0.013	0.0005				E	0.054	0.012				E
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	0.0037	0.00008				E	0.00016	0.000016				E	0.015	0.0005				E	0.038	0.012	J			E
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	0.0095	0.00008				E	0.000075	0.000016	J			E	0.017	0.0005				E	0.049	0.012	J			E
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	0.0081	0.00008				E	0.000088	0.000016				E	0.032	0.0005				E	0.046	0.012	J			E
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	0.0035	0.00008				E	0.000059	0.000016	J			E	0.016	0.0005		J	FD	S	0.043	0.012	J			E
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	0.0031	0.00008				E	0.000051	0.000016	J			E	0.015	0.0005		J	FD	S	0.055	0.012				E
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	0.0043	0.00008				E	0.000038	0.000016	J			E	0.0083	0.0005		J	FD	S	0.15	0.012				E
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	0.0064	0.00008				E	0.000016	0.000016	J			E	0.0061	0.0005		J	FD	S	0.5	0.012				E
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	0.0089	0.00008				E	0.000032	0.000016	J			E	0.0052	0.0005		J	FD	S	1.3	0.012				E
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	0.0059	0.00008				E	0.000018	0.000016	J			E	0.0075	0.0005		J	FD	S	0.33	0.012				E
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	0.0063	0.00008					0.000021	0.000016	J				0.0093	0.0005		J	FD		0.36	0.012				
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	0.00008	0.00008	U				0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	0.0079	0.00008				E	0.00011	0.000016				E	0.03	0.0005				E	0.077	0.012				E
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	0.0075	0.00008				E	0.0001	0.000016				E	0.029	0.0005				E	0.074	0.012				E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	0.0065	0.00008				E	0.00011	0.000016				E	0.024	0.0005				E	0.089	0.012				E
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	0.0063	0.00008				E	0.00012	0.000016				E	0.023	0.0005				E	0.095	0.012				E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	0.0065	0.00008				E	0.00013	0.000016				E	0.023	0.0005				E	0.1	0.012				E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	0.0041	0.00008				E	0.00015	0.000016				E	0.019	0.0005				E	0.06	0.012				E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	0.0048	0.00008				E	0.00018	0.000016				E	0.027	0.0005				E	0.062	0.012				E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	0.004	0.00008				E	0.000038	0.000016	J			E	0.022	0.0005				E	0.058	0.012				E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	0.005	0.00008				E	0.000059	0.000016	J			E	0.027	0.0005				E	0.058	0.012				E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	0.0095	0.00008				E	0.000039	0.000016	J			E	0.031	0.0005				E	0.22	0.012				E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	0.0097	0.00008					0.000047	0.000016	J				0.027	0.0005					0.22	0.012				
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	0.00008	0.00008	U				0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	0.0025	0.00008				E	0.00018	0.000016				E	0.014	0.0005				E	0.058	0.012				E
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	0.0026	0.00008				E	0.00015	0.000016				E	0.015	0.0005				E	0.054	0.012				E
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	0.0027	0.00008	M1			E	0.00018	0.000016	M1			E	0.023	0.0005	M1			E	0.055	0.012	M1			E
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	0.004	0.00008				E	0.00026	0.000016				E	0.035	0.0005				E	0.11	0.012				E
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	0.0028	0.00008				E	0.000082	0.000016				E	0.0086	0.0005				E	0.034	0.012	J			E
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	0.0031	0.00008				E	0.00008	0.000016				E	0.011	0.0005				E	0.044	0.012	J			E
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	0.0074	0.00008				E	0.00026	0.000016				E	0.037	0.0005				E	0.081	0.012				E
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	0.056	0.00008				E	0.0055	0.000016				E	0.6	0.01				E	0.11	0.012				E
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	0.0028	0.00008				E	0.000076	0.000016	J			E	0.02	0.0005				E	0.076	0.012				E
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	0.0054	0.00008				E	0.000016	0.000016	U			E	0.0046	0.0005				E	0.46	0.012				E
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	0.0057	0.00008					0.000016	0.000016	U				0.0049	0.0005					0.46	0.012				
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	0.00008	0.00008	U				0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	0.000045	0.000045	U			E	0.002	0.000028				E	0.022	0.002				E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	0.000045	0.000045	U			E	0.0014	0.000028				E	0.02	0.002				E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	0.000054	0.000054	U			E	0.001	0.000028				E	0.038	0.002				E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	0.000054	0.000054	U			E	0.0017	0.000028				E	0.052	0.002				E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	0.000054	0.000054	U			E	0.0024	0.000028				E	0.038	0.002				E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	0.000054	0.000054	U			E	0.0061	0.000028				E	0.056	0.002				E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	0.000054	0.000054	U			E	0.0026	0.000028				E	0.04	0.002				E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	0.000054	0.000054	U			E	0.0013	0.000028				E	0.04	0.002				E
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	0.000054	0.000054	U			E	0.00052	0.000028				E	0.016	0.002				E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	0.000054	0.000054	U			E	0.00059	0.000028				E	0.017	0.002				E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	0.000054	0.000054	U			E	0.00094	0.000028				E	0.005	0.002				E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	0.000054	0.000054	U				0.00092	0.000028					0.0051	0.002				
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	0.000054	0.000054	U				0.000028	0.000028	U				0.002	0.002	U			
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	0.000054	0.000054	U			E	0.0014	0.000028				E	0.0064	0.002				E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	0.000054	0.000054	J			E	0.0028	0.000028				E	1	0.02				E
10573163	MPTP-CLV-1	SWSD0198-080121	10573163049	2021-08-01 20:54	AS	B	0.000054	0.000054	U			E	0.00066	0.000028				E	0.016	0.002				E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	0.000045	0.000045	U			E	0.0021	0.000028				E	0.041	0.002				E
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	0.000045	0.000045	U			E	0.0017	0.000028				E	0.035	0.002				E
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	0.000045	0.000045	U			E	0.0017	0.000028				E	0.027	0.002				E
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	0.000045	0.000045	U			E	0.002	0.000028				E	0.035	0.002				E
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	0.000045	0.000045	U			E	0.00041	0.000028				E	0.14	0.002				E
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	0.000045	0.000045	U			E	0.00024	0.000028				E	0.15	0.002				E
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	0.000045	0.000045	U			E	0.00099	0.000028				E	0.0045	0.002	J			E
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	0.000045	0.000045	U			E	0.00058	0.000028				E	0.0091	0.002				E
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	0.000045	0.000045	U			E	0.0006	0.000028				E	0.0089	0.002				E
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	0.000045	0.000045	U			E	0.0006	0.000028				E	0.0096	0.002				E
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	0.000045	0.000045	U			E	0.0016	0.000028				E	0.0087	0.002				E
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	0.000045	0.000045	U			E	0.0037	0.000028				E	0.0069	0.002				E
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	0.000045	0.000045	U			E	0.0055	0.000028				E	0.0056	0.002				E
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	0.000045	0.000045	U			E	0.00076	0.000028				E	0.004	0.002	J			E
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	0.000045	0.000045	U				0.00088	0.000028					0.0056	0.002				
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	0.000045	0.000045	U				0.000028	0.000028	U				0.002	0.002	U			
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	0.000045	0.000045	U			E	0.00083	0.000028				E	0.02	0.002				E
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	0.000045	0.000045	U			E	0.0008	0.000028				E	0.02	0.002				E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	0.000045	0.000045	U			E	0.0011	0.000028				E	0.019	0.002				E
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	0.000045	0.000045	U			E	0.0012	0.000028				E	0.018	0.002				E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	0.000045	0.000045	U			E	0.0013	0.000028				E	0.017	0.002				E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	0.000045	0.000045	U			E	0.0012	0.000028				E	0.02	0.002				E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	0.000045	0.000045	U			E	0.0012	0.000028				E	0.036	0.002				E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	0.000045	0.000045	U			E	0.00044	0.000028				E	0.0068	0.002				E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	0.000045	0.000045	U			E	0.00051	0.000028				E	0.0074	0.002				E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	0.000045	0.000045	U			E	0.00094	0.000028				E	0.011	0.002				E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	0.000045	0.000045	U				0.00086	0.000028					0.0092	0.002				
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	0.000045	0.000045	U				0.000028	0.000028	U				0.002	0.002	U			
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	0.000045	0.000045	U			E	0.0024	0.000028				E	0.043	0.002				E
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	0.000045	0.000045	U			E	0.0022	0.000028				E	0.038	0.002				E
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	0.000045	0.000045	U			E	0.002	0.000028	M1			E	0.059	0.002				E
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	0.000045	0.000045	U			E	0.0028	0.000028				E	0.1	0.002				E
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	0.000045	0.000045	U			E	0.00027	0.000028				E	0.068	0.002				E
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	0.000045	0.000045	U			E	0.00026	0.000028				E	0.082	0.002				E
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	0.000045	0.000045	U			E	0.0014	0.000028				E	0.016	0.002				E
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	0.000045	0.000045	U			E	0.0034	0.000028				E	2.7	0.039				E
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	0.000045	0.000045	U			E	0.0013	0.000028				E	0.012	0.002				E
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	0.000045	0.000045	U			E	0.0025	0.000028				E	0.0064	0.002				E
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	0.000045	0.000045	U				0.0024	0.000028					0.0053	0.002				
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	0.000045	0.000045	U				0.000028	0.000028	U				0.002	0.002	U			

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	AsDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CdDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	CuDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	FeDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	0.0038	0.00008				E	0.000061	0.000016	J			E	0.033	0.0005				E	0.12	0.012				E
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	0.0043	0.00008				E	0.000098	0.000016				E	0.036	0.0005				E	0.12	0.012				E
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	0.0039	0.00008				E	0.000086	0.000016				E	0.035	0.0005				E	0.097	0.012				E
10575529	TX-HD-OUT	SWSD0244-081821	10575529017	2021-08-18 02:16	IS3	B	0.0036	0.00008				E	0.000091	0.000016				E	0.036	0.0005				E	0.081	0.012				E
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	0.0067	0.00008				E	0.00014	0.000016				E	0.065	0.0005				E	0.12	0.012				E
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	0.0067	0.00008					0.00014	0.000016					0.066	0.0005					0.12	0.012				
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	0.00008	0.00008	U				0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	0.0066	0.00008				E	0.00015	0.000016				E	0.024	0.0005				E	0.082	0.012				E
10575529	GG-CLV-I	SWSD0250-081821	10575529023	2021-08-18 01:43	AS	B	0.042	0.00008				E	0.0028	0.000016				E	0.27	0.0005				E	0.12	0.012				E
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	0.0063	0.00008				E	0.000089	0.000016				E	0.02	0.0005				E	0.04	0.012	J			E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	0.0049	0.00008				E	0.00011	0.000016				E	0.014	0.0005				E	0.037	0.012	J			E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	0.0035	0.00008				E	0.00014	0.000016				E	0.011	0.0005				E	0.05	0.012	J			E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		0.0026	0.00008				E	0.0001	0.000016				E	0.0093	0.0005				E	0.039	0.012	J			E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	0.0024	0.00008				E	0.00018	0.000016				E	0.014	0.0005				E	0.03	0.012	J			E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	0.0022	0.00008				E	0.00024	0.000016				E	0.018	0.0005				E	0.027	0.012	J			E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	0.0046	0.00008				E	0.00019	0.000016				E	0.018	0.0005				E	0.048	0.012	J			E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	0.0031	0.00008				E	0.00018	0.000016				E	0.0087	0.0005				E	0.28	0.012				E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	0.0038	0.00008				E	0.00013	0.000016				E	0.011	0.0005				E	0.12	0.012				E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	0.0042	0.00008				E	0.00045	0.000016				E	0.018	0.0005				E	0.11	0.012				E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	0.011	0.00008				E	0.000063	0.000016	J			E	0.028	0.0005				E	0.023	0.012	J			E
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	0.0032	0.00008				E	0.000032	0.000016	J			E	0.014	0.0005				E	0.035	0.012	J			E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	0.0026	0.00008				E	0.000035	0.000016	J			E	0.013	0.0005				E	0.03	0.012	J			E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	0.0033	0.00008				E	0.000032	0.000016	J			E	0.012	0.0005				E	0.042	0.012	J			E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	0.0032	0.00008				E	0.000026	0.000016	J			E	0.01	0.0005				E	0.093	0.012				E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	0.005	0.00008				E	0.000058	0.000016	J			E	0.017	0.0005				E	0.069	0.012				E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	0.0037	0.00008				E	0.000096	0.000016				E	0.031	0.0005				E	0.045	0.012	J			E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	0.0037	0.00008					0.000091	0.000016					0.032	0.0005					0.044	0.012	J			
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	0.00008	0.00008	U				0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	0.012	0.00008				E	0.000086	0.000016				E	0.015	0.0005				E	0.052	0.012				E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	0.0098	0.00008				E	0.000089	0.000016				E	0.014	0.0005				E	0.039	0.012	J			E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	0.0099	0.00008				E	0.000073	0.000016	J			E	0.014	0.0005				E	0.05	0.012				E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	0.014	0.00008				E	0.000096	0.000016				E	0.024	0.0005				E	0.033	0.012	J			E
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	0.0053	0.00008				E	0.000055	0.000016	J			E	0.028	0.0005				E	0.16	0.012				E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	0.0052	0.00008				E	0.000067	0.000016	J			E	0.027	0.0005				E	0.12	0.012				E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	0.0055	0.00008				E	0.000064	0.000016	J			E	0.029	0.0005				E	0.076	0.012				E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	0.0049	0.00008				E	0.000083	0.000016				E	0.025	0.0005				E	0.098	0.012				E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	0.0051	0.00008				E	0.00008	0.000016				E	0.027	0.0005				E	0.12	0.012				E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	0.0065	0.00008				E	0.000081	0.000016				E	0.034	0.0005				E	0.21	0.012				E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	0.0089	0.00008				E	0.00012	0.000016				E	0.054	0.0005				E	0.24	0.012				E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	0.006	0.00008				E	0.000067	0.000016	J			E	0.033	0.0005				E	0.096	0.012				E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	0.0058	0.00008					0.000081	0.000016					0.032	0.0005					0.098	0.012				
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	0.00008	0.00008	U				0.000016	0.000016	U				0.0005	0.0005	U				0.012	0.012	U			
10576049	GG-CLV-D	SWSD0288-082121	10576049033	2021-08-21 18:39	AS	B	0.0064	0.00008				E	0.000056	0.000016	J			E	0.015	0.0005				E	0.048	0.012	J			E
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	0.012	0.00008				E	0.0016	0.000016				E	0.055	0.0005				E	0.15	0.012				E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	0.012	0.00008				E	0.0016	0.000016				E	0.057	0.0005				E	0.14	0.012				E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	0.012	0.00008				E	0.0018	0.000016				E	0.062	0.0005				E	0.15	0.012				E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	0.011	0.00008				E	0.0018	0.000016				E	0.061	0.0005				E	0.14	0.012				E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	0.011	0.00008				E	0.0018	0.000016				E	0.063	0.0005				E	0.15	0.012				E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	0.012	0.00008					0.0019	0.000016					0.067	0.0005					0.16	0.012				
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	0.00008	0.00008	U				0.000016	0.000016	U				0.0005	0.0005	U				0.013	0.012	J			

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2b. BPSOU 2021 Diagnostic Water Quality Results - Dissolved

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	HgDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	PbDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	ZnDis (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	0.000045	0.000045	U			E	0.00077	0.000028				E	0.0072	0.002				E
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	0.000045	0.000045	U			E	0.00079	0.000028				E	0.009	0.002				E
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	0.000045	0.000045	U			E	0.00079	0.000028				E	0.012	0.002				E
10575529	TX-HD-OUT	SWSD0244-081821	10575529017	2021-08-18 02:16	IS3	B	0.000045	0.000045	U			E	0.00062	0.000028				E	0.013	0.002				E
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	0.000045	0.000045	U			E	0.0011	0.000028				E	0.019	0.002				E
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	0.000045	0.000045	U				0.0012	0.000028					0.023	0.002				
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	0.000045	0.000045	U				0.000028	0.000028	U				0.002	0.002	U			
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	0.000045	0.000045	U			E	0.0021	0.000028				E	0.058	0.002				E
10575529	GG-CLV-I	SWSD0250-081821	10575529023	2021-08-18 01:43	AS	B	0.000045	0.000045	U			E	0.0019	0.000028				E	1.2	0.039				E
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	0.000045	0.000045	U			E	0.00063	0.000028				E	0.0063	0.002				E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	0.000045	0.000045	U			E	0.001	0.000028				E	0.04	0.002				E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	0.000045	0.000045	U			E	0.0016	0.000028				E	0.028	0.002				E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		0.000045	0.000045	U			E	0.0012	0.000028				E	0.022	0.002	B			E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	0.000045	0.000045	U			E	0.001	0.000028				E	0.059	0.002				E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	0.000045	0.000045	U			E	0.0012	0.000028				E	0.09	0.002				E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	0.000045	0.000045	U			E	0.0011	0.000028				E	0.071	0.002				E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	0.000045	0.000045	U			E	0.0011	0.000028				E	0.22	0.002				E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	0.000045	0.000045	U			E	0.00047	0.000028				E	0.18	0.002				E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	0.000045	0.000045	U			E	0.00042	0.000028				E	1.2	0.02				E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	0.000045	0.000045	U			E	0.00034	0.000028				E	0.0056	0.002	B			E
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	0.000045	0.000045	U			E	0.0004	0.000028				E	0.0068	0.002	B			E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	0.000045	0.000045	U			E	0.00036	0.000028				E	0.0073	0.002	B			E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	0.000045	0.000045	U			E	0.00064	0.000028				E	0.012	0.002	B			E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	0.000045	0.000045	U			E	0.00048	0.000028				E	0.011	0.002	B			E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	0.000045	0.000045	U			E	0.00054	0.000028				E	0.015	0.002	B			E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	0.000045	0.000045	U			E	0.00055	0.000028				E	0.025	0.002				E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	0.000045	0.000045	U				0.00055	0.000028					0.024	0.002				
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	0.000045	0.000045	U				0.000028	0.000028	U				0.002	0.002	U			
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	0.000045	0.000045	U			E	0.0011	0.000028				E	0.0056	0.002	B			E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	0.000045	0.000045	U			E	0.0009	0.000028				E	0.0051	0.002	B			E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	0.000045	0.000045	U			E	0.00095	0.000028				E	0.0045	0.002	J,B			E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	0.000045	0.000045	U			E	0.00086	0.000028				E	0.0078	0.002				E
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	0.000045	0.000045	U			E	0.00087	0.000028		J	FD	S	0.0097	0.002				E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	0.000045	0.000045	U			E	0.00067	0.000028		J	FD	S	0.011	0.002				E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	0.000045	0.000045	U			E	0.00063	0.000028		J	FD	S	0.011	0.002				E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	0.000045	0.000045	U			E	0.00074	0.000028		J	FD	S	0.012	0.002				E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	0.000045	0.000045	U			E	0.0007	0.000028		J	FD	S	0.0086	0.002				E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	0.000045	0.000045	U			E	0.001	0.000028		J	FD	S	0.0098	0.002				E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	0.000045	0.000045	U			E	0.0013	0.000028		J	FD	S	0.013	0.002				E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	0.000045	0.000045	U			E	0.00061	0.000028		J	FD	S	0.015	0.002				E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	0.000045	0.000045	U				0.00078	0.000028		J	FD		0.019	0.002				
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	0.000045	0.000045	U				0.000028	0.000028	U				0.002	0.002	U			
10576049	GG-CLV-D	SWSD0288-082121	10576049033	2021-08-21 18:39	AS	B	0.000045	0.000045	U			E	0.0007	0.000028				E	0.017	0.002				E
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	0.000045	0.000045	U			E	0.0039	0.000028				E	0.4	0.002				E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	0.000045	0.000045	U			E	0.0043	0.000028				E	0.41	0.002				E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	0.000045	0.000045	U			E	0.0043	0.000028				E	0.42	0.002				E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	0.000045	0.000045	U			E	0.0041	0.000028				E	0.45	0.002				E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	0.000045	0.000045	U			E	0.0044	0.000028				E	0.47	0.039				E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	0.000045	0.000045	U				0.0047	0.000028					0.51	0.039				
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	0.000045	0.000045	U				0.000032	0.000028	J				0.002	0.002	U			

Table E2c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10560269	GG-CLV-D	SWSD0001-050721	10560269001	2021-05-07 17:10	IS2-N	B	37.6	6		J+	MS	S	235	5	H1	J-	HT	S
10560269	GG-CLV-D	SWSD0002-050721	10560269002	2021-05-07 17:10	IS2-D	B	35.3	6		J+	MS		229	5	H1	J-	HT	
10560269	SWQC	SWSD0003-051221	10560269003	2021-05-12 14:35	FB	B	1.2	1.2	U				5	5	U			
10560269	GG-CLV-D	SWSD0004-050721	10560269004	2021-05-07 16:55	IS1	B	51	6	M0	J+	MS	S	675	25	H1,D6	J-	HT	S
10561913	BG-CLV-1	SWSD0006-052021	10561913001	2021-05-20 07:20	IS7	B	27.4	1.2				E	159	5				E
10561913	BG-CLV-1	SWSD0007-052021	10561913002	2021-05-20 06:37	IS6	B	26.4	1.2				E	177	5				E
10561913	BG-CLV-1	SWSD0008-052021	10561913003	2021-05-20 06:22	IS5	B	23.1	1.2				E	158	5				E
10561913	BG-CLV-1	SWSD0009-052021	10561913004	2021-05-20 03:31	IS4	B	9.5	1.2				E	183	5				E
10561913	BG-CLV-1	SWSD0010-052021	10561913005	2021-05-20 03:16	IS3	B	10.8	1.2				E	179	5				E
10561913	BG-CLV-1	SWSD0011-052021	10561913006	2021-05-20 03:06	IS2	B	10.7	1.2				E	196	5				E
10561913	BG-CLV-1	SWSD0012-052021	10561913007	2021-05-20 02:49	IS1	B	22.8	1.2				E	292	5				E
10561913	TX-HD-OUT	SWSD0014-052021	10561913009	2021-05-20 17:15	IS3	B	25.1	1.2				E	9.9	5	J			E
10561913	TX-HD-OUT	SWSD0015-052021	10561913010	2021-05-20 03:28	IS2	B	30.5	1.2				E	47.8	5	D6			E
10561913	TX-HD-OUT	SWSD0016-051921	10561913011	2021-05-19 16:11	IS1-N	B	26.6	1.2				E	18.9	5				E
10561913	TX-HD-OUT	SWSD0017-051921	10561913012	2021-05-19 16:11	IS1-D	B	27.3	1.2					21.2	5				
10561913	SWQC	SWSD0018-052421	10561913013	2021-05-24 11:20	FB	B	1.2	1.2	U				5	5	U			
10561913	GG-CLV-D	SWSD0020-052021	10561913015	2021-05-20 07:45	AS	B	29.9	2.4				E	453	5				E
10562410	BG-CLV-1	SWSD0022-052321	10562410001	2021-05-23 15:16	IS8	B	39.4	6				E	188	5				E
10562410	BG-CLV-1	SWSD0023-052321	10562410002	2021-05-23 14:16	IS7	B	26.9	1.2				E	255	5				E
10562410	BG-CLV-1	SWSD0024-052321	10562410003	2021-05-23 06:02	IS6	B	23.2	1.2				E	92.4	5				E
10562410	BG-CLV-1	SWSD0025-052121	10562410004	2021-05-21 18:50	IS5	B	44.8	6				E	194	5				E
10562410	BG-CLV-1	SWSD0026-052121	10562410005	2021-05-21 18:20	IS4	B	53.3	6				E	246	10				E
10562410	BG-CLV-1	SWSD0027-052121	10562410006	2021-05-21 17:50	IS3	B	48	6				E	257	10				E
10562410	BG-CLV-1	SWSD0028-052121	10562410007	2021-05-21 17:35	IS2	B	51.8	6				E	305	5				E
10562410	BG-CLV-1	SWSD0029-052121	10562410008	2021-05-21 17:20	IS1	B	39.3	6				E	253	10				E
10562410	GG-CH-1	SWSD0030-052321	10562410009	2021-05-23 10:17	IS8	B	46.1	6		J-	MS	S	5	5	U			E
10562410	GG-CH-1	SWSD0031-052321	10562410010	2021-05-23 09:17	IS7	B	46.1	6		J-	MS	S	8.1	5	J			E
10562410	GG-CH-1	SWSD0032-052321	10562410011	2021-05-23 09:15	IS6	B	46.5	6		J-	MS	S	5	5	U			E
10562410	GG-CH-1	SWSD0033-052321	10562410012	2021-05-23 08:44	IS5	B	49.7	6		J-	MS	S	5	5	U			E
10562410	GG-CH-1	SWSD0034-052321	10562410013	2021-05-23 08:14	IS4	B	48.6	6		J-	MS	S	5.4	5	J			E
10562410	GG-CH-1	SWSD0035-052321	10562410014	2021-05-23 07:44	IS3	B	51.7	6		J-	MS	S	5	5	U			E
10562410	GG-CH-1	SWSD0036-052321	10562410015	2021-05-23 07:14	IS2	B	51	6		J-	MS	S	5	5	U			E
10562410	GG-CH-1	SWSD0037-052321	10562410016	2021-05-23 06:44	IS1-N	B	51.6	6	M1	J-	MS	S	6.5	5	J			E
10562410	GG-CH-1	SWSD0038-052321	10562410017	2021-05-23 06:44	IS1-D	B	50.2	6		J-	MS		5	5	U			
10562410	SWQC	SWSD0039-052621	10562410018	2021-05-26 00:00	FB	B	1.2	1.2	U				5	5	U			
10562410	GG-CLV-D	SWSD0040-052321	10562410019	2021-05-23 18:00	IS2	B	75.6	6				E	256	10				E

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10562410	TX-HD-OUT	SWSD0042-052421	10562410021	2021-05-24 08:44	IS5	B	28.8	1.2				E	44.3	5				E
10562410	TX-HD-OUT	SWSD0043-052321	10562410022	2021-05-23 03:00	IS4	B	10.3	1.2				E	8.7	5	J			E
10562410	TX-HD-OUT	SWSD0044-052221	10562410023	2021-05-22 16:41	IS3	B	25.4	1.2				E	28.3	5	D6			E
10562410	TX-HD-OUT	SWSD0045-052121	10562410024	2021-05-21 16:41	IS2	B	16.9	1.2				E	17.5	5				E
10562410	TX-HD-OUT	SWSD0046-052121	10562410025	2021-05-21 13:27	IS1-N	B	14.8	1.2				E	17	5				E
10562410	TX-HD-OUT	SWSD0047-052121	10562410026	2021-05-21 13:27	IS1-D	B	15.4	1.2					23.2	5				
10562410	SWQC	SWSD0048-052621	10562410027	2021-05-26 00:00	FB	B	1.2	1.2	U				5	5	U			
10563136	BG-CLV-1	SWSD0053-052621	10563136001	2021-05-26 09:02	IS8		42.3	6				E	788	10		J	FD	S
10563136	BG-CLV-1	SWSD0054-052621	10563136002	2021-05-26 06:19	IS7		38.3	6				E	419	5		J	FD	S
10563136	BG-CLV-1	SWSD0055-052521	10563136003	2021-05-25 23:55	IS6		29	1.2		J+	MS	S	250	5	H3	J-	FD,HT	S
10563136	BG-CLV-1	SWSD0056-052521	10563136004	2021-05-25 22:39	IS5		26.7	1.2		J+	MS	S	222	5	H3	J-	FD,HT	S
10563136	BG-CLV-1	SWSD0057-052521	10563136005	2021-05-25 18:03	IS4		37.7	6		J+	MS	S	314	5	H3	J-	FD,HT	S
10563136	BG-CLV-1	SWSD0058-052521	10563136006	2021-05-25 17:33	IS3		21.8	1.2		J+	MS	S	311	10	H3	J-	FD,HT	S
10563136	BG-CLV-1	SWSD0059-052521	10563136007	2021-05-25 17:18	IS2		30.9	1.2		J+	MS	S	355	10	H3	J-	FD,HT	S
10563136	BG-CLV-1	SWSD0060-052521	10563136008	2021-05-25 17:03	IS1		28.8	1.2		J+	MS	S	254	5	H3	J-	FD,HT	S
10563136	GG-CLV-D	SWSD0061-052621	10563136009	2021-05-26 09:31	IS1		177	30.2				E	1100	10		J	FD	S
10563136	LC-CLV-1	SWSD0062-052621	10563136010	2021-05-26 12:45	IS6		20.4	1.2	M1	J+	MS	S	152	5		J	FD	S
10563136	LC-CLV-1	SWSD0063-052621	10563136011	2021-05-26 11:45	IS5		38.2	1.2	M1	J-	MS	S	173	10		J	FD	S
10563136	LC-CLV-1	SWSD0064-052621	10563136012	2021-05-26 11:15	IS4		25.2	6		J-	MS	S	235	10		J	FD	S
10563136	LC-CLV-1	SWSD0065-052621	10563136013	2021-05-26 10:45	IS3		36.1	6		J-	MS	S	285	16.7		J	FD	S
10563136	LC-CLV-1	SWSD0066-052621	10563136014	2021-05-26 10:30	IS2		30.1	6		J-	MS	S	333	16.7		J	FD	S
10563136	LC-CLV-1	SWSD0067-052621	10563136015	2021-05-26 10:15	IS1-N		38.3	6		J-	MS	S	340	10		J	FD	S
10563136	LC-CLV-1	SWSD0068-052621	10563136016	2021-05-26 10:15	IS1-D		39.4	1.2		J-	MS		419	10		J	FD	
10563136	SWQC	SWSD0069-060121	10563136017	2021-06-01 00:00	FB		1.2	1.2	U				5	5	U			
10563136	MSD-CLV-3A	SWSD0070-052621	10563136018	2021-05-26 17:38	IS8		27.5	1.2		J-	FD,MS	S	29.8	5	D6	J	RPD	S
10563136	MSD-CLV-3A	SWSD0071-052621	10563136019	2021-05-26 14:45	IS7		34.8	1.2		J-	FD,MS	S	69.5	5		J	RPD	S
10563136	MSD-CLV-3A	SWSD0072-052621	10563136020	2021-05-26 13:58	IS6		38.1	1.2		J-	FD,MS	S	58.3	5	H1	J-	HT	S
10563136	MSD-CLV-3A	SWSD0073-052621	10563136021	2021-05-26 12:58	IS5		36.9	6		J-	FD,MS	S	105	5	H1	J-	HT	S
10563136	MSD-CLV-3A	SWSD0074-052621	10563136022	2021-05-26 12:28	IS4		37.6	1.2		J-	FD,MS	S	110	10	H1	J-	HT	S
10563136	MSD-CLV-3A	SWSD0075-052621	10563136023	2021-05-26 11:58	IS3		35.2	6		J-	FD,MS	S	120	10	H1	J-	HT	S
10563136	MSD-CLV-3A	SWSD0076-052621	10563136024	2021-05-26 11:28	IS2		36.1	6		J-	FD,MS	S	139	10	H1	J-	HT	S
10563136	MSD-CLV-3A	SWSD0077-052621	10563136025	2021-05-26 10:58	IS1-N		38.7	6		J-	FD,MS	S	172	10	H1	J-	HT	S
10563136	MSD-CLV-3A	SWSD0078-052621	10563136026	2021-05-26 10:58	IS1-D		30.7	6		J-	FD,MS		173	10	H1	J-	HT	
10563136	SWQC	SWSD0079-060121	10563136027	2021-06-01 00:00	FB		1.2	1.2	U				5	5	U			
10563136	TX-HD-OUT	SWSD0080-052621	10563136028	2021-05-26 23:13	IS3		44.9	6		J-	FD,MS	S	205	10	H1	J-	HT	S
10563136	TX-HD-OUT	SWSD0081-052621	10563136029	2021-05-26 09:15	IS2		41.9	6		J-	FD,MS	S	153	10	H1	J-	HT	S

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10563136	TX-HD-OUT	SWSD0082-052521	10563136030	2021-05-25 17:43	IS1		27.5	1.2		J-	FD,MS	S	30.7	5	H3	J-	HT	S
10565533	BG-CLV-1	SWSD0085-061021	10565533001	2021-06-10 16:10	IS6	B	14.1	1.2				E	108	5				E
10565533	BG-CLV-1	SWSD0086-061021	10565533002	2021-06-10 15:40	IS5	B	16.4	1.2				E	107	5				E
10565533	BG-CLV-1	SWSD0087-061021	10565533003	2021-06-10 15:10	IS4	B	18.8	1.2				E	213	5				E
10565533	BG-CLV-1	SWSD0088-061021	10565533004	2021-06-10 14:55	IS3	B	30.3	6				E	313	5				E
10565533	BG-CLV-1	SWSD0089-061021	10565533005	2021-06-10 14:40	IS2	B	54.9	6				E	288	5				E
10565533	GG-CH-1	SWSD0090-061021	10565533006	2021-06-10 17:25	IS1	B	57.4	6				E	52.7	5				E
10565533	GG-CLV-D	SWSD0091-061021	10565533007	2021-06-10 14:49	IS1	B	71.4	6				E	652	5				E
10565533	LC-CLV-1	SWSD0092-061021	10565533008	2021-06-10 17:22	IS6	B	21.7	1.2		J-	MS	S	128	5				E
10565533	LC-CLV-1	SWSD0093-061021	10565533009	2021-06-10 16:22	IS5	B	24.2	1.2		J-	MS	S	159	5				E
10565533	LC-CLV-1	SWSD0094-061021	10565533010	2021-06-10 15:52	IS4	B	33.7	6		J-	MS	S	255	5				E
10565533	LC-CLV-1	SWSD0095-061021	10565533011	2021-06-10 15:22	IS3	B	109	6		J-	MS	S	517	5				E
10565533	LC-CLV-1	SWSD0096-061021	10565533012	2021-06-10 15:07	IS2	B	14.9	1.2		J-	MS	S	28.7	5				E
10565533	LC-CLV-1	SWSD0097-061021	10565533013	2021-06-10 14:52	IS1-N	B	30.6	1.2		J-	MS	S	36.4	5				E
10565533	LC-CLV-1	SWSD0098-061021	10565533014	2021-06-10 14:52	IS1-D	B	30.9	1.2		J-	MS		33.8	5				
10565533	SWQC	SWSD0099-061521	10565533015	2021-06-15 12:15	FB	B	1.2	1.2	U				5	5	U			
10565533	MSD-CLV-3A	SWSD0100-061021	10565533016	2021-06-10 20:48	IS7	B	31.2	1.2	M1	J-	MS	S	29.3	5	D6			E
10565533	MSD-CLV-3A	SWSD0101-061021	10565533017	2021-06-10 19:48	IS6	B	38.1	1.2		J-	MS	S	38.7	5				E
10565533	MSD-CLV-3A	SWSD0102-061021	10565533018	2021-06-10 18:48	IS5	B	30.4	1.2		J-	MS	S	48.5	5				E
10565533	MSD-CLV-3A	SWSD0103-061021	10565533019	2021-06-10 18:18	IS4	B	24.6	1.2		J-	MS	S	55.7	5				E
10565533	MSD-CLV-3A	SWSD0104-061021	10565533020	2021-06-10 17:48	IS3	B	22.3	1.2		J-	MS	S	67.7	5				E
10565533	MSD-CLV-3A	SWSD0105-061021	10565533021	2021-06-10 17:18	IS2	B	24.7	1.2	M1			E	75.6	5				E
10565533	MSD-CLV-3A	SWSD0106-061021	10565533022	2021-06-10 16:48	IS1-N	B	19.1	1.2				E	122	5		J	RPD	S
10565533	MSD-CLV-3A	SWSD0107-061021	10565533023	2021-06-10 16:48	IS1-D	B	19.2	1.2					116	5	D6	J	RPD	
10565533	SWQC	SWSD0108-061521	10565533024	2021-06-15 11:05	FB	B	1.2	1.2	U				5	5	U			
10565533	TX-HD-OUT	SWSD0109-061121	10565533025	2021-06-11 03:16	IS8	B	36.9	1.2				E	44	5				E
10565533	TX-HD-OUT	SWSD0110-061121	10565533026	2021-06-11 01:19	IS7	B	29.8	1.2				E	44	5	D6			E
10565533	TX-HD-OUT	SWSD0111-061021	10565533027	2021-06-10 16:44	IS6	B	15.6	1.2				E	157	5				E
10565533	TX-HD-OUT	SWSD0112-061021	10565533028	2021-06-10 16:36	IS5	B	15.1	1.2				E	162	10				E
10565533	TX-HD-OUT	SWSD0113-061021	10565533029	2021-06-10 16:17	IS4	B	17	1.2				E	208	10				E
10565533	TX-HD-OUT	SWSD0114-061021	10565533030	2021-06-10 16:02	IS3	B	17.8	1.2				E	237	10				E
10565533	TX-HD-OUT	SWSD0115-061021	10565533031	2021-06-10 15:58	IS2	B	25.6	1.2				E	217	10				E
10565533	TX-HD-OUT	SWSD0116-061021	10565533032	2021-06-10 15:33	IS1	B	33.2	6				E	274	10				E
10565533	GG-CLV-D	SWSD0118-061021	10565533034	2021-06-10 14:49	AS	B	70.3	6				E	1080	10				E
10568970	BG-CLV-1	SWSD0119-070121	10568970001	2021-07-01 15:32	IS5	B	20.5	1.2	M1	J+	MS	S	331	10		J	FD	S
10568970	BG-CLV-1	SWSD0120-070121	10568970002	2021-07-01 15:02	IS4	B	24.5	1.2		J+	MS	S	283	10		J	FD	S
10568970	BG-CLV-1	SWSD0121-070121	10568970003	2021-07-01 14:32	IS3	B	42.4	2.4				E	1370	10		J	FD	S

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10568970	BG-CLV-1	SWSD0122-070121	10568970004	2021-07-01 14:17	IS2	B	53.8	2.4				E	2430	16.7		J	FD	S
10568970	BG-CLV-1	SWSD0123-070121	10568970005	2021-07-01 14:02	IS1	B	31.4	1.2				E	3970	12.5	D6	J	FD	S
10568970	GG-CLV-D	SWSD0124-070121	10568970006	2021-07-01 14:12	IS1	B	32.3	1.2				E	1070	10		J	FD	S
10568970	LC-CLV-1	SWSD0125-070121	10568970007	2021-07-01 18:22	IS6	B	33.5	1.2		J	FD	S	187	10		J	FD	S
10568970	LC-CLV-1	SWSD0126-070121	10568970008	2021-07-01 17:22	IS5	B	22.3	1.2		J	FD	S	232	10		J	FD	S
10568970	LC-CLV-1	SWSD0127-070121	10568970009	2021-07-01 16:52	IS4	B	36	2.4		J	FD	S	267	10		J	FD	S
10568970	LC-CLV-1	SWSD0128-070121	10568970010	2021-07-01 16:22	IS3	B	33.1	1.2		J	FD	S	297	10		J	FD	S
10568970	LC-CLV-1	SWSD0129-070121	10568970011	2021-07-01 16:07	IS2	B	20.2	1.2		J	FD	S	284	10		J	FD	S
10568970	LC-CLV-1	SWSD0130-070121	10568970012	2021-07-01 15:53	IS1-N	B	16.8	1.2		J	FD	S	282	5		J	FD	S
10568970	LC-CLV-1	SWSD0131-070121	10568970013	2021-07-01 15:53	IS1-D	B	108	6	M1	J+	FD,MS		481	10		J	FD	
10568970	SWQC	SWSD0132-070721	10568970014	2021-07-07 10:45	FB	B	1.2	1.2	U				5	5	U			
10568970	MSD-CLV-3A	SWSD0133-070121	10568970015	2021-07-01 20:07	IS8	B	50.3	6		J	FD	S	63.4	5				E
10568970	MSD-CLV-3A	SWSD0134-070121	10568970016	2021-07-01 19:07	IS7	B	54.6	6		J	FD	S	102	5				E
10568970	MSD-CLV-3A	SWSD0135-070121	10568970017	2021-07-01 18:07	IS6	B	62.2	6		J	FD	S	140	5				E
10568970	MSD-CLV-3A	SWSD0136-070121	10568970018	2021-07-01 17:07	IS5	B	52	6		J	FD	S	179	5				E
10568970	MSD-CLV-3A	SWSD0137-070121	10568970019	2021-07-01 16:37	IS4	B	46.9	6		J	FD	S	150	5				E
10568970	MSD-CLV-3A	SWSD0138-070121	10568970020	2021-07-01 16:07	IS3	B	41.8	6		J	FD	S	196	5				E
10568970	MSD-CLV-3A	SWSD0139-070121	10568970021	2021-07-01 15:37	IS2	B	56.6	6		J	FD	S	333	5				E
10568970	MSD-CLV-3A	SWSD0140-070121	10568970022	2021-07-01 15:07	IS1-N	B	34.3	6		J	FD	S	347	5				E
10568970	MSD-CLV-3A	SWSD0141-070121	10568970023	2021-07-01 15:07	IS1-D	B	42.6	6		J	FD		323	5				
10568970	SWQC	SWSD0142-070721	10568970024	2021-07-07 12:07	FB	B	1.2	1.2	U				5	5	U			
10568970	GG-CLV-D	SWSD0143-070121	10568970025	2021-07-01 14:12	AS	B	144	6				E	1060	10				E
10573163	BG-CLV-1	SWSD0150-080121	10573163001	2021-08-01 19:05	IS7	B	33.7	2.4				E	377	10		J	FD,RPD	S
10573163	BG-CLV-1	SWSD0151-080121	10573163002	2021-08-01 18:05	IS6	B	30.7	1.2				E	617	10		J	FD,RPD	S
10573163	BG-CLV-1	SWSD0152-080121	10573163003	2021-08-01 17:35	IS5	B	18.7	1.2				E	927	10		J	FD,RPD	S
10573163	BG-CLV-1	SWSD0153-080121	10573163004	2021-08-01 17:12	IS4	B	17.2	1.2		J+	MS	S	255	10		J	FD,RPD	S
10573163	BG-CLV-1	SWSD0154-080121	10573163005	2021-08-01 16:42	IS3	B	14.5	1.2	M1	J+	MS	S	478	10	D6	J	FD,RPD	S
10573163	BG-CLV-1	SWSD0155-080121	10573163006	2021-08-01 16:27	IS2	B	24.1	1.2		J+	MS	S	562	10		J	FD,RPD	S
10573163	BG-CLV-1	SWSD0156-080121	10573163007	2021-08-01 16:12	IS1-N	B	37.4	1.2		J+	MS	S	730	10		J	FD,RPD	S
10573163	BG-CLV-1	SWSD0157-080121	10573163008	2021-08-01 16:12	IS1-D	B	38.6	1.2		J+	MS		562	10		J	FD,RPD	
10573163	SWQC	SWSD0158-080321	10573163009	2021-08-03 14:46	FB	B	1.2	1.2	U				5	5	U			
10573163	GG-CLV-C	SWSD0159-080121	10573163010	2021-08-01 17:40	IS1	B	449	30.2				E	2750	16.7		J	FD,RPD	S
10573163	GG-CLV-D	SWSD0160-080121	10573163011	2021-08-01 20:52	IS3	B	74.5	6				E	2470	16.7		J	FD,RPD	S
10573163	GG-CLV-D	SWSD0161-080121	10573163012	2021-08-01 17:35	IS2	B	49.5	6				E	1520	16.7		J	FD,RPD	S
10573163	GG-CLV-D	SWSD0162-080121	10573163013	2021-08-01 16:11	IS1	B	51.2	2.4				E	1380	16.7		J	FD,RPD	S
10573163	GG-CLV-I	SWSD0163-080121	10573163014	2021-08-01 21:48	IS4	B	429	30.2				E	1380	16.7		J	FD,RPD	S
10573163	GG-CLV-I	SWSD0164-080121	10573163015	2021-08-01 21:18	IS3	B	529	30.2				E	1330	14.3		J	FD,RPD	S

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10573163	GG-CLV-I	SWSD0165-080121	10573163016	2021-08-01 21:03	IS2	B	510	30.2				E	5390	16.7		J	FD	S
10573163	GG-CLV-I	SWSD0166-080121	10573163017	2021-08-01 20:48	IS1	B	520	24.2				E	12400	50		J	FD	S
10573163	LC-CLV-1	SWSD0167-080121	10573163018	2021-08-01 23:31	IS6	B	12.1	1.2				E	196	10		J	FD	S
10573163	LC-CLV-1	SWSD0168-080121	10573163019	2021-08-01 22:31	IS5	B	13.7	1.2				E	223	10		J	FD	S
10573163	LC-CLV-1	SWSD0169-080121	10573163020	2021-08-01 22:01	IS4	B	18	1.2				E	427	10		J	FD	S
10573163	LC-CLV-1	SWSD0170-080121	10573163021	2021-08-01 21:31	IS3	B	10.6	1.2				E	487	10		J	FD	S
10573163	LC-CLV-1	SWSD0171-080121	10573163022	2021-08-01 21:16	IS2	B	21.1	1.2				E	1560	16.7		J	FD	S
10573163	LC-CLV-1	SWSD0172-080121	10573163023	2021-08-01 21:01	IS1-N	B	25.4	1.2				E	1010	10		J	FD	S
10573163	LC-CLV-1	SWSD0173-080121	10573163024	2021-08-01 21:01	IS1-D	B	29.8	2.4					1670	16.7		J	FD	
10573163	SWQC	SWSD0174-080321	10573163025	2021-08-03 16:15	FB	B	1.2	1.2	U				5	5	U			
10573163	MPTP-CLV-1	SWSD0175-080121	10573163026	2021-08-01 23:58	IS7	B	76.7	2.4				E	211	10		J	FD	S
10573163	MPTP-CLV-1	SWSD0176-080121	10573163027	2021-08-01 22:58	IS6	B	82	6				E	267	10		J	FD	S
10573163	MPTP-CLV-1	SWSD0177-080121	10573163028	2021-08-01 22:28	IS5	B	95.5	6				E	375	10		J	FD	S
10573163	MPTP-CLV-1	SWSD0178-080121	10573163029	2021-08-01 21:58	IS4	B	91.4	6				E	464	10		J	FD	S
10573163	MPTP-CLV-1	SWSD0179-080121	10573163030	2021-08-01 21:43	IS3	B	86	6				E	433	10		J	FD	S
10573163	MPTP-CLV-1	SWSD0180-080121	10573163031	2021-08-01 21:28	IS2	B	49.9	6				E	1060	10		J	FD	S
10573163	MPTP-CLV-1	SWSD0181-080121	10573163032	2021-08-01 20:54	IS1	B	279	30.2				E	3050	16.7		J	FD	S
10573163	MSD-CLV-3A	SWSD0182-080121	10573163033	2021-08-01 23:18	IS8	B	16.8	1.2				E	131	10				E
10573163	MSD-CLV-3A	SWSD0183-080121	10573163034	2021-08-01 22:18	IS7	B	18.5	1.2				E	163	10				E
10573163	MSD-CLV-3A	SWSD0184-080121	10573163035	2021-08-01 21:18	IS6	B	31.7	1.2				E	69	5				E
10573163	MSD-CLV-3A	SWSD0185-080121	10573163036	2021-08-01 20:18	IS5	B	28.8	1.2				E	26.9	5				E
10573163	MSD-CLV-3A	SWSD0186-080121	10573163037	2021-08-01 19:48	IS4	B	26.7	1.2				E	35.8	5	D6			E
10573163	MSD-CLV-3A	SWSD0187-080121	10573163038	2021-08-01 19:18	IS3	B	28	1.2				E	83.3	5				E
10573163	MSD-CLV-3A	SWSD0188-080121	10573163039	2021-08-01 18:48	IS2	B	27.9	1.2				E	87.4	5				E
10573163	MSD-CLV-3A	SWSD0189-080121	10573163040	2021-08-01 18:18	IS1	B	32.5	1.2				E	206	5				E
10573163	TX-HD-OUT	SWSD0190-080121	10573163041	2021-08-01 22:09	IS3	B	35.5	1.2				E	541	10				E
10573163	TX-HD-OUT	SWSD0191-080121	10573163042	2021-08-01 21:44	IS2	B	42.4	2.4				E	895	10				E
10573163	TX-HD-OUT	SWSD0192-080121	10573163043	2021-08-01 21:14	IS1-N	B	65.9	2.4				E	2770	16.7				E
10573163	TX-HD-OUT	SWSD0193-080121	10573163044	2021-08-01 21:14	IS1-D	B	69.4	2.4					2660	16.7				
10573163	SWQC	SWSD0194-080321	10573163045	2021-08-03 16:05	FB	B	1.2	1.2	U				5	5	U			
10573163	GG-CLV-D	SWSD0196-080121	10573163047	2021-08-01 16:11	AS	B	41.8	6				E	1840	16.7				E
10573163	GG-CLV-I	SWSD0197-080121	10573163048	2021-08-01 20:48	AS	B	59.6	6				E	1120	16.7				E
10574254	BG-CLV-1	SWSD0199-080821	10574254001	2021-08-08 19:59	IS7	B	8.7	1.2				E	51.5	5		J	RPD	S
10574254	BG-CLV-1	SWSD0200-080821	10574254002	2021-08-08 19:29	IS6	B	8.3	1.2				E	77.6	5		J	RPD	S
10574254	BG-CLV-1	SWSD0201-080821	10574254003	2021-08-08 18:59	IS5	B	13	1.2				E	191	5		J	RPD	S
10574254	BG-CLV-1	SWSD0202-080821	10574254004	2021-08-08 18:44	IS4	B	22.1	1.2				E	420	5	D6	J	RPD	S
10574254	GG-CH-1	SWSD0203-080821	10574254005	2021-08-08 19:43	IS2	B	70.2	6				E	45.2	5		J	RPD	S

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10574254	GG-CH-1	SWSD0204-080821	10574254006	2021-08-08 19:13	IS1	B	73	6				E	175	5		J	RPD	S
10574254	GG-CLV-D	SWSD0205-080821	10574254007	2021-08-08 20:30	IS6	B	19	1.2				E	146	5		J	RPD	S
10574254	GG-CLV-D	SWSD0206-080821	10574254008	2021-08-08 18:43	IS4	B	62.2	6				E	1070	10		J	RPD	S
10574254	LC-CLV-1	SWSD0207-080821	10574254009	2021-08-08 21:13	IS6	B	5.2	1.2	M1	J+	FD,MS	S	75.1	5		J	RPD	S
10574254	LC-CLV-1	SWSD0208-080821	10574254010	2021-08-08 20:13	IS5	B	5.4	1.2		J+	FD,MS	S	94.9	5		J	RPD	S
10574254	LC-CLV-1	SWSD0209-080821	10574254011	2021-08-08 19:43	IS4	B	8.5	1.2		J+	FD,MS	S	354	5		J	RPD	S
10574254	LC-CLV-1	SWSD0210-080821	10574254012	2021-08-08 19:13	IS3	B	50.7	6		J	FD	S	1000	10		J	RPD	S
10574254	LC-CLV-1	SWSD0211-080821	10574254013	2021-08-08 18:58	IS2	B	123	6		J	FD	S	2910	25		J	RPD	S
10574254	LC-CLV-1	SWSD0212-080821	10574254014	2021-08-08 18:43	IS1-N	B	38.7	6		J	FD	S	1240	10		J	RPD	S
10574254	LC-CLV-1	SWSD0213-080821	10574254015	2021-08-08 18:43	IS1-D	B	47.7	6		J	FD		1450	25		J	RPD	
10574254	SWQC	SWSD0214-081121	10574254016	2021-08-11 11:20	FB	B	1.2	1.2	U				5	5	U			
10574254	MSD-CLV-3A	SWSD0215-080821	10574254017	2021-08-08 23:39	IS7	B	17.4	1.2		J+	MS	S	14.7	5		J	RPD	S
10574254	MSD-CLV-3A	SWSD0216-080821	10574254018	2021-08-08 22:39	IS6	B	18.8	1.2	M1	J+	MS	S	33.7	5				E
10574254	MSD-CLV-3A	SWSD0217-080821	10574254019	2021-08-08 21:39	IS5	B	22.7	1.2		J+	MS	S	81.2	5				E
10574254	MSD-CLV-3A	SWSD0218-080821	10574254020	2021-08-08 20:44	IS4	B	22.1	1.2		J+	MS	S	93.6	5				E
10574254	MSD-CLV-3A	SWSD0219-080821	10574254021	2021-08-08 20:39	IS3	B	31.6	1.2		J+	MS	S	200	5				E
10574254	MSD-CLV-3A	SWSD0220-080821	10574254022	2021-08-08 20:09	IS2	B	24.3	1.2		J+	MS	S	162	5				E
10574254	MSD-CLV-3A	SWSD0221-080821	10574254023	2021-08-08 19:39	IS1	B	29.5	1.2		J+	MS	S	249	5				E
10574254	TX-HD-OUT	SWSD0222-080821	10574254024	2021-08-08 19:54	IS3	B	19.9	1.2				E	201	5				E
10574254	TX-HD-OUT	SWSD0223-080821	10574254025	2021-08-08 18:59	IS2	B	22.6	1.2				E	467	5				E
10574254	TX-HD-OUT	SWSD0224-080821	10574254026	2021-08-08 18:54	IS1-N	B	41.9	6				E	1820	10				E
10574254	TX-HD-OUT	SWSD0225-080821	10574254027	2021-08-08 18:54	IS1-D	B	39	1.2					1650	10				
10574254	SWQC	SWSD0226-081121	10574254028	2021-08-11 12:20	FB	B	1.2	1.2	U				5	5	U			
10575529	BG-CLV-1	SWSD0228-081821	10575529001	2021-08-18 02:32	IS7	B	7.7	1.2		J+	MS	S	79.4	5		J	RPD	S
10575529	BG-CLV-1	SWSD0229-081821	10575529002	2021-08-18 02:02	IS6	B	8	1.2		J+	MS	S	131	5		J	RPD	S
10575529	BG-CLV-1	SWSD0230-081821	10575529003	2021-08-18 01:32	IS5	B	15.9	1.2	M1	J+	MS	S	194	5	D6	J	RPD	S
10575529	BG-CLV-1	SWSD0231-081821	10575529004	2021-08-18 00:46	IS4	B	26.5	1.2		J+	MS	S	88.7	5		J	RPD	S
10575529	GG-CH-1	SWSD0232-081821	10575529005	2021-08-18 02:46	IS2	B	54.4	2.4				E	32	5		J	RPD	S
10575529	GG-CH-1	SWSD0233-081821	10575529006	2021-08-18 02:16	IS1	B	59.5	2.4				E	49.1	5		J	RPD	S
10575529	GG-CLV-D	SWSD0235-081821	10575529008	2021-08-18 01:35	IS1	B	29.7	1.2				E	106	5		J	RPD	S
10575529	GG-CLV-I	SWSD0236-081821	10575529009	2021-08-18 01:43	IS1	B	165	6				E	883	10		J	RPD	S
10575529	LC-CLV-1	SWSD0237-081821	10575529010	2021-08-18 03:02	IS7	B	10	1.2				E	175	5		J	RPD	S
10575529	LC-CLV-1	SWSD0238-081821	10575529011	2021-08-18 02:02	IS6-N	B	21.5	6				E	1050	10		J	RPD	S
10575529	LC-CLV-1	SWSD0239-081821	10575529012	2021-08-18 02:02	IS6-D	B	21.9	6					1130	10		J	RPD	
10575529	SWQC	SWSD0240-082021	10575529013	2021-08-20 11:30	FB	B	1.2	1.2	U				5	5	U			
10575529	TX-HD-OUT	SWSD0241-081821	10575529014	2021-08-18 03:19	IS6	B	16.4	1.2				E	331	5		J	RPD	S
10575529	TX-HD-OUT	SWSD0242-081821	10575529015	2021-08-18 03:16	IS5	B	16.4	1.2				E	342	5		J	RPD	S

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10575529	TX-HD-OUT	SWSD0243-081821	10575529016	2021-08-18 02:46	IS4	B	14.7	1.2				E	401	5		J	RPD	S
10575529	TX-HD-OUT	SWSD0245-081821	10575529018	2021-08-18 01:46	IS2-N	B	28.3	2.4				E	672	5		J	RPD	S
10575529	TX-HD-OUT	SWSD0246-081821	10575529019	2021-08-18 01:46	IS2-D	B	29.8	1.2					596	5		J	RPD	
10575529	SWQC	SWSD0247-082021	10575529020	2021-08-20 12:50	FB	B	1.2	1.2	U				5	5	U			
10575529	GG-CLV-D	SWSD0249-081821	10575529022	2021-08-18 01:35	AS	B	18.3	1.2				E	307	5		J	RPD	S
10575529	GG-CLV-D	SWSD0253-082021	10575529026	2021-08-20 02:55	IS2	B	10.9	1.2				E	42	5				E
10575529	GG-CLV-D	SWSD0254-082021	10575529027	2021-08-20 02:53	AS	B	12.2	1.2				E	21.6	5				E
10576049	BG-CLV-1	SWSD0256-082121	10576049001	2021-08-21 20:09	IS5	B	8.5	1.2				E	80.5	5				E
10576049	BG-CLV-1	SWSD0257-082121	10576049002	2021-08-21 19:39	IS4		7.2	1.2				E	119	5				E
10576049	BG-CLV-1	SWSD0258-082121	10576049003	2021-08-21 19:09	IS3	B	6.5	1.2				E	128	5				E
10576049	BG-CLV-1	SWSD0259-082121	10576049004	2021-08-21 18:54	IS2	B	6.9	1.2				E	129	5				E
10576049	BG-CLV-1	SWSD0260-082121	10576049005	2021-08-21 18:39	IS1	B	9.3	1.2				E	168	5				E
10576049	GG-CH-1	SWSD0261-082121	10576049006	2021-08-21 20:11	IS3	B	59	2.4	M1	J-	MS	S	27.6	5	D6			E
10576049	GG-CH-1	SWSD0262-082121	10576049007	2021-08-21 19:41	IS2	B	49.6	6		J-	MS	S	35.7	5				E
10576049	GG-CH-1	SWSD0263-082121	10576049008	2021-08-21 19:12	IS1	B	221	12.1		J-	MS	S	24.1	5				E
10576049	GG-CLV-D	SWSD0264-082121	10576049009	2021-08-21 18:39	IS1	B	17.7	1.2				E	583	5				E
10576049	LC-CLV-1	SWSD0265-082121	10576049010	2021-08-21 21:20	IS6	B	4.4	1.2		J+	MS	S	71.7	5				E
10576049	LC-CLV-1	SWSD0266-082121	10576049011	2021-08-21 20:20	IS5	B	3.8	1.2		J+	MS	S	80.9	5				E
10576049	LC-CLV-1	SWSD0267-082121	10576049012	2021-08-21 19:50	IS4	B	5	1.2		J+	MS	S	250	5				E
10576049	LC-CLV-1	SWSD0268-082121	10576049013	2021-08-21 19:20	IS3	B	6.3	1.2		J+	MS	S	409	5				E
10576049	LC-CLV-1	SWSD0269-082121	10576049014	2021-08-21 19:05	IS2	B	5.7	1.2	M1	J+	MS	S	184	5				E
10576049	LC-CLV-1	SWSD0270-082121	10576049015	2021-08-21 18:50	IS1-N	B	25.4	1.2		J+	MS	S	209	5				E
10576049	LC-CLV-1	SWSD0271-082121	10576049016	2021-08-21 18:50	IS1-D	B	23.7	1.2		J+	MS		204	5				
10576049	SWQC	SWSD0272-082521	10576049017	2021-08-25 13:06	FB	B	1.2	1.2	U				5	5	U			
10576049	MPTP-CLV-1	SWSD0273-082121	10576049018	2021-08-21 21:05	IS4	B	15.3	1.2				E	107	5				E
10576049	MPTP-CLV-1	SWSD0274-082121	10576049019	2021-08-21 20:35	IS3	B	17.5	1.2				E	148	5				E
10576049	MPTP-CLV-1	SWSD0275-082121	10576049020	2021-08-21 20:20	IS2	B	25.3	1.2				E	169	5				E
10576049	MPTP-CLV-1	SWSD0276-082121	10576049021	2021-08-21 20:05	IS1	B	24.8	1.2				E	286	5				E
10576049	TX-HD-OUT	SWSD0277-082121	10576049022	2021-08-21 20:47	IS8	B	16.9	1.2				E	274	5				E
10576049	TX-HD-OUT	SWSD0278-082121	10576049023	2021-08-21 20:44	IS7	B	16.7	1.2				E	266	5				E
10576049	TX-HD-OUT	SWSD0279-082121	10576049024	2021-08-21 20:42	IS6	B	15.8	1.2				E	262	5				E
10576049	TX-HD-OUT	SWSD0280-082121	10576049025	2021-08-21 20:35	IS5	B	16.1	1.2				E	271	5				E
10576049	TX-HD-OUT	SWSD0281-082121	10576049026	2021-08-21 20:30	IS4	B	20	1.2	M1	J+	MS	S	281	5				E
10576049	TX-HD-OUT	SWSD0282-082121	10576049027	2021-08-21 20:00	IS3	B	32.9	1.2		J+	MS	S	619	5				E
10576049	TX-HD-OUT	SWSD0283-082121	10576049028	2021-08-21 19:30	IS2	B	31.1	1.2		J+	MS	S	581	5				E
10576049	TX-HD-OUT	SWSD0284-082121	10576049029	2021-08-21 19:00	IS1-N	B	31.4	1.2		J+	MS	S	552	5				E
10576049	TX-HD-OUT	SWSD0285-082121	10576049030	2021-08-21 19:00	IS1-D	B	32.2	1.2		J+	MS		620	5				

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E2c. BPSOU 2021 Diagnostic Water Quality Results - General Chemistry

SDG	Location	Field Sample ID	Lab Sample ID	Monitoring Date	Sample Type	Level A/B	SO4 (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status	TSS (mg/L)	MDL (mg/L)	Lab Q	Val Q	DV Code	Status
10576049	SWQC	SWSD0286-082521	10576049031	2021-08-25 12:00	FB	B	1.2	1.2	U				5	5	U			
10583383	MG-CLV-0	SWSD0290-100821	10583383001	2021-10-08 11:44	IS5	B	52	2.4				E	5	5	U			E
10583383	MG-CLV-0	SWSD0291-100821	10583383002	2021-10-08 11:14	IS4	B	53.2	2.4				E	5	5	U			E
10583383	MG-CLV-0	SWSD0292-100821	10583383003	2021-10-08 10:44	IS3	B	51.9	2.4				E	5	5	U			E
10583383	MG-CLV-0	SWSD0293-100821	10583383004	2021-10-08 10:14	IS2	B	52.2	2.4				E	5	5	U			E
10583383	MG-CLV-0	SWSD0294-100821	10583383005	2021-10-08 09:44	IS1-N	B	52.3	2.4				E	51	5				E
10583383	MG-CLV-0	SWSD0295-100821	10583383006	2021-10-08 09:44	IS1-D	B	53.8	2.4					53.4	5				
10583383	SWQC	SWSD0296-101421	10583383007	2021-10-14 11:30	FB	B	1.2	1.2	U				5	5	U			

See Table A4 for laboratory and validation qualifier, validation code, and status definitions

Table E3a. BPSOU 2021 Diagnostic Data Quality - Field Duplicates

Location	Monitoring Date	Natural Field ID	Natural Lab ID	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate Field ID	Duplicate Lab ID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	AsDis	mg/L	0.011	0.00014	0.0005	SWSD0002-050721	10560269002	0.011	0.00014	0.0005	0.0	
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	AsTR	µg/L	32.2	0.7	2.5	SWSD0002-050721	10560269002	30.5	0.7	2.5	5.4	
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	CdDis	mg/L	0.000069	0.00003	0.00008	SWSD0002-050721	10560269002	0.00008	0.00003	0.00008	14.8	0.00001
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	CdTR	µg/L	1.4	0.15	0.4	SWSD0002-050721	10560269002	1.3	0.15	0.4	7.4	0.1
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	CuDis	mg/L	0.024	0.00043	0.001	SWSD0002-050721	10560269002	0.026	0.00043	0.001	8.0	
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	CuTR	µg/L	165	2.1	5	SWSD0002-050721	10560269002	158	2.1	5	4.3	
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	FeDis	mg/L	0.083	0.012	0.05	SWSD0002-050721	10560269002	0.099	0.012	0.05	17.6	0.016
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	FeTR	µg/L	15000	60	250	SWSD0002-050721	10560269002	14300	60	250	4.8	
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	HgDis	µg/L	0.045	0.045	0.2	SWSD0002-050721	10560269002	0.045	0.045	0.2	0.0	0
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	HgTR	mg/L	0.00006	0.000045	0.0002	SWSD0002-050721	10560269002	0.00006	0.000045	0.0002	0.0	0
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	PbDis	mg/L	0.00074	0.000043	0.0001	SWSD0002-050721	10560269002	0.00088	0.000043	0.0001	17.3	
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	PbTR	µg/L	121	0.22	0.5	SWSD0002-050721	10560269002	112	0.22	0.5	7.7	
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	SO4	mg/L	37.6	6	12.5	SWSD0002-050721	10560269002	35.3	6	12.5	6.3	2.3
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	TSS	mg/L	235	5	10	SWSD0002-050721	10560269002	229	5	10	2.6	
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	ZnDis	mg/L	0.005	0.0023	0.005	SWSD0002-050721	10560269002	0.0057	0.0023	0.005	13.1	0.0007
GG-CLV-D	2021-05-07	SWSD0001-050721	10560269001	10560269	ZnTR	µg/L	320	11.4	25	SWSD0002-050721	10560269002	306	11.4	25	4.5	
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	AsDis	mg/L	0.007	0.00014	0.0005	SWSD0017-051921	10561913012	0.0071	0.00014	0.0005	1.4	
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	AsTR	µg/L	10.3	0.14	0.5	SWSD0017-051921	10561913012	10.9	0.14	0.5	5.7	
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	CdDis	mg/L	0.000039	0.00003	0.00008	SWSD0017-051921	10561913012	0.000045	0.00003	0.00008	14.3	0.000006
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	CdTR	µg/L	0.11	0.03	0.08	SWSD0017-051921	10561913012	0.12	0.03	0.08	8.7	0.01
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	CuDis	mg/L	0.017	0.00043	0.001	SWSD0017-051921	10561913012	0.016	0.00043	0.001	6.1	
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	CuTR	µg/L	68.1	0.43	1	SWSD0017-051921	10561913012	74.6	0.43	1	9.1	
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	FeDis	mg/L	0.099	0.012	0.05	SWSD0017-051921	10561913012	0.1	0.012	0.05	1.0	0.001
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	FeTR	µg/L	2270	12	50	SWSD0017-051921	10561913012	2390	12	50	5.2	
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	HgDis	µg/L	0.045	0.045	0.2	SWSD0017-051921	10561913012	0.045	0.045	0.2	0.0	0
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	HgTR	mg/L	0.000045	0.000045	0.0002	SWSD0017-051921	10561913012	0.000045	0.000045	0.0002	0.0	0
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	PbDis	mg/L	0.00034	0.000043	0.0001	SWSD0017-051921	10561913012	0.00028	0.000043	0.0001	19.4	0.00006
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	PbTR	µg/L	6.7	0.043	0.1	SWSD0017-051921	10561913012	7.7	0.043	0.1	13.9	
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	SO4	mg/L	26.6	1.2	2.5	SWSD0017-051921	10561913012	27.3	1.2	2.5	2.6	
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	TSS	mg/L	18.9	5	10	SWSD0017-051921	10561913012	21.2	5	10	11.5	2.3
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	ZnDis	mg/L	0.011	0.0023	0.005	SWSD0017-051921	10561913012	0.011	0.0023	0.005	0.0	0
TX-HD-OUT	2021-05-19	SWSD0016-051921	10561913011	10561913	ZnTR	µg/L	44.8	2.3	5	SWSD0017-051921	10561913012	47	2.3	5	4.8	
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	AsDis	mg/L	0.0047	0.00014	0.0005	SWSD0038-052321	10562410017	0.0047	0.00014	0.0005	0.0	
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	AsTR	µg/L	6.4	0.14	0.5	SWSD0038-052321	10562410017	6.4	0.14	0.5	0.0	
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	CdDis	mg/L	0.00003	0.00003	0.00008	SWSD0038-052321	10562410017	0.00003	0.00003	0.00008	0.0	0
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	CdTR	µg/L	0.059	0.03	0.08	SWSD0038-052321	10562410017	0.048	0.03	0.08	20.6	0.011
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	CuDis	mg/L	0.0022	0.00043	0.001	SWSD0038-052321	10562410017	0.0046	0.00043	0.001	70.6	0.0024
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	CuTR	µg/L	5.6	0.43	1	SWSD0038-052321	10562410017	4.7	0.43	1	17.5	0.9
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	FeDis	mg/L	0.025	0.012	0.05	SWSD0038-052321	10562410017	0.031	0.012	0.05	21.4	0.006
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	FeTR	µg/L	407	12	50	SWSD0038-052321	10562410017	407	12	50	0.0	
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	HgDis	µg/L	0.045	0.045	0.2	SWSD0038-052321	10562410017	0.045	0.045	0.2	0.0	0
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	HgTR	mg/L	0.000045	0.000045	0.0002	SWSD0038-052321	10562410017	0.000045	0.000045	0.0002	0.0	0
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	PbDis	mg/L	0.000043	0.000043	0.0001	SWSD0038-052321	10562410017	0.00014	0.000043	0.0001	106.0	0.000097
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	PbTR	µg/L	1.2	0.043	0.1	SWSD0038-052321	10562410017	1.2	0.043	0.1	0.0	
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	SO4	mg/L	51.6	6	12.5	SWSD0038-052321	10562410017	50.2	6	12.5	2.8	1.4
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	TSS	mg/L	6.5	5	10	SWSD0038-052321	10562410017	5	5	10	26.1	1.5
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	ZnDis	mg/L	0.04	0.0023	0.005	SWSD0038-052321	10562410017	0.04	0.0023	0.005	0.0	
GG-CH-1	2021-05-23	SWSD0037-052321	10562410016	10562410	ZnTR	µg/L	69.5	2.3	5	SWSD0038-052321	10562410017	70.2	2.3	5	1.0	
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	AsDis	mg/L	0.0044	0.00014	0.0005	SWSD0047-052121	10562410026	0.0047	0.00014	0.0005	6.6	
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	AsTR	µg/L	5.8	0.14	0.5	SWSD0047-052121	10562410026	6.1	0.14	0.5	5.0	
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	CdDis	mg/L	0.00003	0.00003	0.00008	SWSD0047-052121	10562410026	0.00003	0.00003	0.00008	0.0	0
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	CdTR	µg/L	0.086	0.03	0.08	SWSD0047-052121	10562410026	0.09	0.03	0.08	4.6	0.004
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	CuDis	mg/L	0.018	0.00043	0.001	SWSD0047-052121	10562410026	0.019	0.00043	0.001	5.4	

Highlighted cells indicate Field Precision outside of criteria

Table E3a. BPSOU 2021 Diagnostic Data Quality - Field Duplicates

Location	Monitoring Date	Natural Field ID	Natural Lab ID	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate Field ID	Duplicate Lab ID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	CuTR	µg/L	50.7	0.43	1	SWSD0047-052121	10562410026	54.1	0.43	1	6.5	
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	FeDis	mg/L	0.088	0.012	0.05	SWSD0047-052121	10562410026	0.099	0.012	0.05	11.8	0.011
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	FeTR	µg/L	1630	12	50	SWSD0047-052121	10562410026	1770	12	50	8.2	
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	HgDis	µg/L	0.045	0.045	0.2	SWSD0047-052121	10562410026	0.045	0.045	0.2	0.0	0
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	HgTR	mg/L	0.000045	0.000045	0.0002	SWSD0047-052121	10562410026	0.000045	0.000045	0.0002	0.0	0
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	PbDis	mg/L	0.0004	0.000043	0.0001	SWSD0047-052121	10562410026	0.00041	0.000043	0.0001	2.5	0.00001
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	PbTR	µg/L	6.8	0.043	0.1	SWSD0047-052121	10562410026	7.1	0.043	0.1	4.3	
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	SO4	mg/L	14.8	1.2	2.5	SWSD0047-052121	10562410026	15.4	1.2	2.5	4.0	
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	TSS	mg/L	17	5	10	SWSD0047-052121	10562410026	23.2	5	10	30.9	6.2
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	ZnDis	mg/L	0.011	0.0023	0.005	SWSD0047-052121	10562410026	0.013	0.0023	0.005	16.7	0.002
TX-HD-OUT	2021-05-21	SWSD0046-052121	10562410025	10562410	ZnTR	µg/L	47.5	2.3	5	SWSD0047-052121	10562410026	48.3	2.3	5	1.7	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	AsDis	mg/L	0.0031	0.00014	0.0005	SWSD0068-052621	10563136016	0.0031	0.00014	0.0005	0.0	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	AsTR	µg/L	17	0.14	0.5	SWSD0068-052621	10563136016	17.6	0.14	0.5	3.5	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	CdDis	mg/L	0.000042	0.00003	0.00008	SWSD0068-052621	10563136016	0.000034	0.00003	0.00008	21.1	0.000008
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	CdTR	µg/L	0.74	0.03	0.08	SWSD0068-052621	10563136016	0.76	0.03	0.08	2.7	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	CuDis	mg/L	0.014	0.00043	0.001	SWSD0068-052621	10563136016	0.013	0.00043	0.001	7.4	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	CuTR	µg/L	257	0.43	1	SWSD0068-052621	10563136016	267	0.43	1	3.8	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	FeDis	mg/L	0.12	0.012	0.05	SWSD0068-052621	10563136016	0.13	0.012	0.05	8.0	0.01
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	FeTR	µg/L	14400	12	50	SWSD0068-052621	10563136016	14800	12	50	2.7	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	HgDis	µg/L	0.045	0.045	0.2	SWSD0068-052621	10563136016	0.045	0.045	0.2	0.0	0
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	HgTR	mg/L	0.00006	0.000045	0.0002	SWSD0068-052621	10563136016	0.00006	0.000045	0.0002	0.0	0
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	PbDis	mg/L	0.00074	0.000043	0.0001	SWSD0068-052621	10563136016	0.00072	0.000043	0.0001	2.7	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	PbTR	µg/L	71.6	0.043	0.1	SWSD0068-052621	10563136016	74.1	0.043	0.1	3.4	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	SO4	mg/L	38.3	6	12.5	SWSD0068-052621	10563136016	39.4	1.2	2.5	2.8	1.1
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	TSS	mg/L	340	10	20	SWSD0068-052621	10563136016	419	10	20	20.8	
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	ZnDis	mg/L	0.011	0.0023	0.005	SWSD0068-052621	10563136016	0.011	0.0023	0.005	0.0	0
LC-CLV-1	2021-05-26	SWSD0067-052621	10563136015	10563136	ZnTR	µg/L	361	2.3	5	SWSD0068-052621	10563136016	374	2.3	5	3.5	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	AsDis	mg/L	0.0054	0.00014	0.0005	SWSD0078-052621	10563136026	0.0053	0.00014	0.0005	1.9	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	AsTR	µg/L	13.8	0.14	0.5	SWSD0078-052621	10563136026	14.3	0.14	0.5	3.6	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	CdDis	mg/L	0.00016	0.00003	0.00008	SWSD0078-052621	10563136026	0.00015	0.00003	0.00008	6.5	0.00001
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	CdTR	µg/L	0.7	0.03	0.08	SWSD0078-052621	10563136026	0.72	0.03	0.08	2.8	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	CuDis	mg/L	0.03	0.00043	0.001	SWSD0078-052621	10563136026	0.028	0.00043	0.001	6.9	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	CuTR	µg/L	170	0.43	1	SWSD0078-052621	10563136026	184	0.43	1	7.9	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	FeDis	mg/L	0.4	0.012	0.05	SWSD0078-052621	10563136026	0.36	0.012	0.05	10.5	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	FeTR	µg/L	7940	12	50	SWSD0078-052621	10563136026	8510	12	50	6.9	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	HgDis	µg/L	0.045	0.045	0.2	SWSD0078-052621	10563136026	0.045	0.045	0.2	0.0	0
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	HgTR	mg/L	0.00016	0.000045	0.0002	SWSD0078-052621	10563136026	0.00017	0.000045	0.0002	6.1	0.00001
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	PbDis	mg/L	0.0031	0.000043	0.0001	SWSD0078-052621	10563136026	0.0029	0.000043	0.0001	6.7	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	PbTR	µg/L	64	0.043	0.1	SWSD0078-052621	10563136026	67.7	0.043	0.1	5.6	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	SO4	mg/L	38.7	6	12.5	SWSD0078-052621	10563136026	30.7	6	12.5	23.1	8
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	TSS	mg/L	172	10	20	SWSD0078-052621	10563136026	173	10	20	0.6	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	ZnDis	mg/L	0.043	0.0023	0.005	SWSD0078-052621	10563136026	0.041	0.0023	0.005	4.8	
MSD-CLV-3A	2021-05-26	SWSD0077-052621	10563136025	10563136	ZnTR	µg/L	297	2.3	5	SWSD0078-052621	10563136026	313	2.3	5	5.3	
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	AsDis	mg/L	0.006	0.00014	0.0005	SWSD0098-061021	10565533014	0.0062	0.00014	0.0005	3.3	
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	AsTR	µg/L	7.5	0.14	0.5	SWSD0098-061021	10565533014	7.3	0.14	0.5	2.7	
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	CdDis	mg/L	0.000083	0.00003	0.00008	SWSD0098-061021	10565533014	0.000091	0.00003	0.00008	9.2	0.000008
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	CdTR	µg/L	0.15	0.03	0.08	SWSD0098-061021	10565533014	0.16	0.03	0.08	6.5	0.01
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	CuDis	mg/L	0.023	0.00043	0.001	SWSD0098-061021	10565533014	0.024	0.00043	0.001	4.3	
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	CuTR	µg/L	46.7	0.43	1	SWSD0098-061021	10565533014	45.1	0.43	1	3.5	
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	FeDis	mg/L	0.18	0.012	0.05	SWSD0098-061021	10565533014	0.18	0.012	0.05	0.0	0
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	FeTR	µg/L	1280	12	50	SWSD0098-061021	10565533014	1250	12	50	2.4	
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	HgDis	µg/L	0.045	0.045	0.2	SWSD0098-061021	10565533014	0.045	0.045	0.2	0.0	0
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	HgTR	mg/L	0.000045	0.000045	0.0002	SWSD0098-061021	10565533014	0.000045	0.000045	0.0002	0.0	0

Highlighted cells indicate Field Precision outside of criteria

Table E3a. BPSOU 2021 Diagnostic Data Quality - Field Duplicates

Location	Monitoring Date	Natural Field ID	Natural Lab ID	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate Field ID	Duplicate Lab ID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	PbDis	mg/L	0.00057	0.000043	0.0001	SWSD0098-061021	10565533014	0.00055	0.000043	0.0001	3.6	
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	PbTR	µg/L	5.6	0.043	0.1	SWSD0098-061021	10565533014	5.4	0.043	0.1	3.6	
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	SO4	mg/L	30.6	1.2	2.5	SWSD0098-061021	10565533014	30.9	1.2	2.5	1.0	
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	TSS	mg/L	36.4	5	10	SWSD0098-061021	10565533014	33.8	5	10	7.4	2.6
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	ZnDis	mg/L	0.017	0.0023	0.005	SWSD0098-061021	10565533014	0.019	0.0023	0.005	11.1	0.002
LC-CLV-1	2021-06-10	SWSD0097-061021	10565533013	10565533	ZnTR	µg/L	43.8	2.3	5	SWSD0098-061021	10565533014	42	2.3	5	4.2	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	AsDis	mg/L	0.0061	0.00014	0.0005	SWSD0107-061021	10565533023	0.0059	0.00014	0.0005	3.3	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	AsTR	µg/L	11.7	0.14	0.5	SWSD0107-061021	10565533023	11.1	0.14	0.5	5.3	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	CdDis	mg/L	0.00026	0.00003	0.00008	SWSD0107-061021	10565533023	0.00024	0.00003	0.00008	8.0	0.00002
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	CdTR	µg/L	0.67	0.03	0.08	SWSD0107-061021	10565533023	0.63	0.03	0.08	6.2	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	CuDis	mg/L	0.041	0.00043	0.001	SWSD0107-061021	10565533023	0.039	0.00043	0.001	5.0	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	CuTR	µg/L	138	0.43	1	SWSD0107-061021	10565533023	130	0.43	1	6.0	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	FeDis	mg/L	0.11	0.012	0.05	SWSD0107-061021	10565533023	0.092	0.012	0.05	17.8	0.018
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	FeTR	µg/L	4990	12	50	SWSD0107-061021	10565533023	4600	12	50	8.1	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	HgDis	µg/L	0.045	0.045	0.2	SWSD0107-061021	10565533023	0.045	0.045	0.2	0.0	0
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	HgTR	mg/L	0.000075	0.000045	0.0002	SWSD0107-061021	10565533023	0.000085	0.000045	0.0002	12.5	0.00001
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	PbDis	mg/L	0.0012	0.000043	0.0001	SWSD0107-061021	10565533023	0.001	0.000043	0.0001	18.2	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	PbTR	µg/L	44	0.043	0.1	SWSD0107-061021	10565533023	41.8	0.043	0.1	5.1	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	SO4	mg/L	19.1	1.2	2.5	SWSD0107-061021	10565533023	19.2	1.2	2.5	0.5	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	TSS	mg/L	122	5	10	SWSD0107-061021	10565533023	116	5	10	5.0	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	ZnDis	mg/L	0.11	0.0023	0.005	SWSD0107-061021	10565533023	0.11	0.0023	0.005	0.0	
MSD-CLV-3A	2021-06-10	SWSD0106-061021	10565533022	10565533	ZnTR	µg/L	301	2.3	5	SWSD0107-061021	10565533023	287	2.3	5	4.8	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	AsDis	mg/L	0.0057	0.00014	0.0005	SWSD0131-070121	10568970013	0.0058	0.00014	0.0005	1.7	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	AsTR	µg/L	23	0.7	2.5	SWSD0131-070121	10568970013	19.8	0.7	2.5	15.0	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	CdDis	mg/L	0.00011	0.00003	0.00008	SWSD0131-070121	10568970013	0.00011	0.00003	0.00008	0.0	0
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	CdTR	µg/L	1.2	0.15	0.4	SWSD0131-070121	10568970013	0.89	0.15	0.4	29.7	0.31
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	CuDis	mg/L	0.023	0.00043	0.001	SWSD0131-070121	10568970013	0.023	0.00043	0.001	0.0	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	CuTR	µg/L	357	2.1	5	SWSD0131-070121	10568970013	294	2.1	5	19.4	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	FeDis	mg/L	0.17	0.012	0.05	SWSD0131-070121	10568970013	0.18	0.012	0.05	5.7	0.01
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	FeTR	µg/L	14800	60	250	SWSD0131-070121	10568970013	12400	60	250	17.7	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	HgDis	µg/L	0.045	0.045	0.2	SWSD0131-070121	10568970013	0.045	0.045	0.2	0.0	0
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	HgTR	mg/L	0.000072	0.000045	0.0002	SWSD0131-070121	10568970013	0.000056	0.000045	0.0002	25.0	0.000016
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	PbDis	mg/L	0.0014	0.000043	0.0001	SWSD0131-070121	10568970013	0.0014	0.000043	0.0001	0.0	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	PbTR	µg/L	112	0.22	0.5	SWSD0131-070121	10568970013	90.6	0.22	0.5	21.1	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	SO4	mg/L	16.8	1.2	2.5	SWSD0131-070121	10568970013	108	6	12.5	146.2	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	TSS	mg/L	282	5	10	SWSD0131-070121	10568970013	481	10	20	52.2	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	ZnDis	mg/L	0.047	0.002	0.005	SWSD0131-070121	10568970013	0.048	0.002	0.005	2.1	
LC-CLV-1	2021-07-01	SWSD0130-070121	10568970012	10568970	ZnTR	µg/L	474	11.4	25	SWSD0131-070121	10568970013	383	11.4	25	21.2	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	AsDis	mg/L	0.0066	0.00014	0.0005	SWSD0141-070121	10568970023	0.0066	0.00014	0.0005	0.0	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	AsTR	µg/L	25.6	0.14	0.5	SWSD0141-070121	10568970023	27.5	0.14	0.5	7.2	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	CdDis	mg/L	0.00032	0.00003	0.00008	SWSD0141-070121	10568970023	0.0003	0.00003	0.00008	6.5	0.00002
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	CdTR	µg/L	1.9	0.03	0.08	SWSD0141-070121	10568970023	2	0.03	0.08	5.1	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	CuDis	mg/L	0.053	0.00043	0.001	SWSD0141-070121	10568970023	0.051	0.00043	0.001	3.9	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	CuTR	µg/L	281	0.43	1	SWSD0141-070121	10568970023	304	0.43	1	7.9	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	FeDis	mg/L	0.046	0.012	0.05	SWSD0141-070121	10568970023	0.048	0.012	0.05	4.3	0.002
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	FeTR	µg/L	11700	12	50	SWSD0141-070121	10568970023	12600	12	50	7.4	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	HgDis	µg/L	0.045	0.045	0.2	SWSD0141-070121	10568970023	0.045	0.045	0.2	0.0	0
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	HgTR	mg/L	0.00031	0.000045	0.0002	SWSD0141-070121	10568970023	0.00032	0.000045	0.0002	3.2	0.00001
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	PbDis	mg/L	0.0014	0.000043	0.0001	SWSD0141-070121	10568970023	0.0014	0.000043	0.0001	0.0	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	PbTR	µg/L	222	0.043	0.1	SWSD0141-070121	10568970023	235	0.043	0.1	5.7	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	SO4	mg/L	34.3	6	12.5	SWSD0141-070121	10568970023	42.6	6	12.5	21.6	8.3
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	TSS	mg/L	347	5	10	SWSD0141-070121	10568970023	323	5	10	7.2	
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	ZnDis	mg/L	0.065	0.0023	0.005	SWSD0141-070121	10568970023	0.064	0.0023	0.005	1.6	

Highlighted cells indicate Field Precision outside of criteria

Table E3a. BPSOU 2021 Diagnostic Data Quality - Field Duplicates

Location	Monitoring Date	Natural Field ID	Natural Lab ID	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate Field ID	Duplicate Lab ID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
MSD-CLV-3A	2021-07-01	SWSD0140-070121	10568970022	10568970	ZnTR	µg/L	763	22.9	50	SWSD0141-070121	10568970023	787	22.9	50	3.1	
BG-CLV-1	2021-07-20	SWSD0145-072021	10571347001	10571347	AsTR	µg/L	67.8	0.41	2.5	SWSD0146-072021	10571347002	79.2	0.41	2.5	15.5	
BG-CLV-1	2021-07-20	SWSD0145-072021	10571347001	10571347	CdTR	µg/L	7.5	0.08	0.4	SWSD0146-072021	10571347002	8	0.08	0.4	6.5	
BG-CLV-1	2021-07-20	SWSD0145-072021	10571347001	10571347	CuTR	µg/L	811	2.5	5	SWSD0146-072021	10571347002	922	2.5	5	12.8	
BG-CLV-1	2021-07-20	SWSD0145-072021	10571347001	10571347	FeTR	µg/L	39300	60.5	250	SWSD0146-072021	10571347002	50200	60.5	250	24.4	
BG-CLV-1	2021-07-20	SWSD0145-072021	10571347001	10571347	HgTR	mg/L	0.0005	0.000045	0.0002	SWSD0146-072021	10571347002	0.00056	0.000045	0.0002	11.3	0.0001
BG-CLV-1	2021-07-20	SWSD0145-072021	10571347001	10571347	PbTR	µg/L	860	0.14	0.5	SWSD0146-072021	10571347002	937	0.14	0.5	8.6	
BG-CLV-1	2021-07-20	SWSD0145-072021	10571347001	10571347	ZnTR	µg/L	3220	9.8	25	SWSD0146-072021	10571347002	3500	9.8	25	8.3	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	AsDis	mg/L	0.0059	0.000083	0.0005	SWSD0157-080121	10573163008	0.0061	0.000083	0.0005	3.3	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	AsTR	µg/L	29.8	0.41	2.5	SWSD0157-080121	10573163008	32.4	0.41	2.5	8.4	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	CdDis	mg/L	0.00016	0.000016	0.00008	SWSD0157-080121	10573163008	0.00016	0.000016	0.00008	0.0	0
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	CdTR	µg/L	2.5	0.08	0.4	SWSD0157-080121	10573163008	2.2	0.08	0.4	12.8	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	CuDis	mg/L	0.017	0.0005	0.001	SWSD0157-080121	10573163008	0.017	0.0005	0.001	0.0	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	CuTR	µg/L	301	2.5	5	SWSD0157-080121	10573163008	332	2.5	5	9.8	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	FeDis	mg/L	0.14	0.012	0.05	SWSD0157-080121	10573163008	0.16	0.012	0.05	13.3	0.02
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	FeTR	µg/L	20800	60.5	250	SWSD0157-080121	10573163008	23300	60.5	250	11.3	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	HgDis	µg/L	0.058	0.045	0.2	SWSD0157-080121	10573163008	0.053	0.045	0.2	9.0	0.005
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	HgTR	mg/L	0.00019	0.000045	0.0002	SWSD0157-080121	10573163008	0.00021	0.000045	0.0002	10.0	0.00002
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	PbDis	mg/L	0.002	0.000028	0.0001	SWSD0157-080121	10573163008	0.0022	0.000028	0.0001	9.5	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	PbTR	µg/L	219	0.14	0.5	SWSD0157-080121	10573163008	234	0.14	0.5	6.6	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	SO4	mg/L	37.4	1.2	2.5	SWSD0157-080121	10573163008	38.6	1.2	2.5	3.2	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	TSS	mg/L	730	10	20	SWSD0157-080121	10573163008	562	10	20	26.0	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	ZnDis	mg/L	0.041	0.002	0.005	SWSD0157-080121	10573163008	0.046	0.002	0.005	11.5	
BG-CLV-1	2021-08-01	SWSD0156-080121	10573163007	10573163	ZnTR	µg/L	970	9.8	25	SWSD0157-080121	10573163008	1000	9.8	25	3.1	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	AsDis	mg/L	0.0072	0.000083	0.0005	SWSD0173-080121	10573163024	0.0071	0.000083	0.0005	1.4	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	AsTR	µg/L	50.2	0.41	2.5	SWSD0173-080121	10573163024	57.8	0.41	2.5	14.1	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	CdDis	mg/L	0.000024	0.000016	0.00008	SWSD0173-080121	10573163024	0.000024	0.000016	0.00008	0.0	0
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	CdTR	µg/L	3.3	0.08	0.4	SWSD0173-080121	10573163024	3.9	0.08	0.4	16.7	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	CuDis	mg/L	0.0077	0.0005	0.001	SWSD0173-080121	10573163024	0.008	0.0005	0.001	3.8	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	CuTR	µg/L	1600	5	10	SWSD0173-080121	10573163024	1760	5	10	9.5	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	FeDis	mg/L	0.35	0.012	0.05	SWSD0173-080121	10573163024	0.32	0.012	0.05	9.0	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	FeTR	µg/L	47000	121	500	SWSD0173-080121	10573163024	51700	121	500	9.5	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	HgDis	µg/L	0.045	0.045	0.2	SWSD0173-080121	10573163024	0.045	0.045	0.2	0.0	0
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	HgTR	mg/L	0.00031	0.000054	0.00024	SWSD0173-080121	10573163024	0.00042	0.000054	0.00024	30.1	0.00011
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	PbDis	mg/L	0.0011	0.000028	0.0001	SWSD0173-080121	10573163024	0.0011	0.000028	0.0001	0.0	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	PbTR	µg/L	256	0.14	0.5	SWSD0173-080121	10573163024	312	0.14	0.5	19.7	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	SO4	mg/L	25.4	1.2	2.5	SWSD0173-080121	10573163024	29.8	2.4	5	15.9	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	TSS	mg/L	1010	10	20	SWSD0173-080121	10573163024	1670	16.7	33.3	49.3	
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	ZnDis	mg/L	0.0077	0.002	0.005	SWSD0173-080121	10573163024	0.0057	0.002	0.005	29.9	0.002
LC-CLV-1	2021-08-01	SWSD0172-080121	10573163023	10573163	ZnTR	µg/L	1310	9.8	25	SWSD0173-080121	10573163024	1590	9.8	25	19.3	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	AsDis	mg/L	0.014	0.000083	0.0005	SWSD0193-080121	10573163044	0.014	0.000083	0.0005	0.0	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	AsTR	µg/L	114	0.083	0.5	SWSD0193-080121	10573163044	109	0.083	0.5	4.5	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	CdDis	mg/L	0.000023	0.000016	0.00008	SWSD0193-080121	10573163044	0.000016	0.000016	0.00008	35.9	0.000007
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	CdTR	µg/L	5.2	0.016	0.08	SWSD0193-080121	10573163044	5	0.016	0.08	3.9	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	CuDis	mg/L	0.013	0.0005	0.001	SWSD0193-080121	10573163044	0.014	0.0005	0.001	7.4	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	CuTR	µg/L	3390	5	10	SWSD0193-080121	10573163044	3260	5	10	3.9	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	FeDis	mg/L	0.43	0.012	0.05	SWSD0193-080121	10573163044	0.43	0.012	0.05	0.0	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	FeTR	µg/L	68900	121	500	SWSD0193-080121	10573163044	69500	121	500	0.9	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	HgDis	µg/L	0.054	0.054	0.24	SWSD0193-080121	10573163044	0.054	0.054	0.24	0.0	0
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	HgTR	mg/L	0.00033	0.000045	0.0002	SWSD0193-080121	10573163044	0.00036	0.000045	0.0002	8.7	0.00003
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	PbDis	mg/L	0.00094	0.000028	0.0001	SWSD0193-080121	10573163044	0.00092	0.000028	0.0001	2.2	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	PbTR	µg/L	436	0.028	0.1	SWSD0193-080121	10573163044	414	0.028	0.1	5.2	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	SO4	mg/L	65.9	2.4	5	SWSD0193-080121	10573163044	69.4	2.4	5	5.2	

Highlighted cells indicate Field Precision outside of criteria

Table E3a. BPSOU 2021 Diagnostic Data Quality - Field Duplicates

Location	Monitoring Date	Natural Field ID	Natural Lab ID	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate Field ID	Duplicate Lab ID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	TSS	mg/L	2770	16.7	33.3	SWSD0193-080121	10573163044	2660	16.7	33.3	4.1	
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	ZnDis	mg/L	0.005	0.002	0.005	SWSD0193-080121	10573163044	0.0051	0.002	0.005	2.0	0.0001
TX-HD-OUT	2021-08-01	SWSD0192-080121	10573163043	10573163	ZnTR	µg/L	1820	19.7	50	SWSD0193-080121	10573163044	1770	19.7	50	2.8	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	AsDis	mg/L	0.0059	0.000083	0.0005	SWSD0213-080821	10574254015	0.0063	0.000083	0.0005	6.6	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	AsTR	µg/L	59.7	0.41	2.5	SWSD0213-080821	10574254015	64.5	0.41	2.5	7.7	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	CdDis	mg/L	0.000018	0.000016	0.00008	SWSD0213-080821	10574254015	0.000021	0.000016	0.00008	15.4	0.000003
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	CdTR	µg/L	3.8	0.08	0.4	SWSD0213-080821	10574254015	4.4	0.08	0.4	14.6	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	CuDis	mg/L	0.0075	0.0005	0.001	SWSD0213-080821	10574254015	0.0093	0.0005	0.001	21.4	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	CuTR	µg/L	1710	2.5	5	SWSD0213-080821	10574254015	1810	2.5	5	5.7	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	FeDis	mg/L	0.33	0.012	0.05	SWSD0213-080821	10574254015	0.36	0.012	0.05	8.7	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	FeTR	µg/L	46800	60.5	250	SWSD0213-080821	10574254015	50800	60.5	250	8.2	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	HgDis	µg/L	0.045	0.045	0.2	SWSD0213-080821	10574254015	0.045	0.045	0.2	0.0	0
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	HgTR	mg/L	0.00023	0.000045	0.0002	SWSD0213-080821	10574254015	0.00023	0.000045	0.0002	0.0	0
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	PbDis	mg/L	0.00076	0.000028	0.0001	SWSD0213-080821	10574254015	0.00088	0.000028	0.0001	14.6	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	PbTR	µg/L	326	0.14	0.5	SWSD0213-080821	10574254015	369	0.14	0.5	12.4	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	SO4	mg/L	38.7	6	12.5	SWSD0213-080821	10574254015	47.7	6	12.5	20.8	9
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	TSS	mg/L	1240	10	20	SWSD0213-080821	10574254015	1450	25	50	15.6	
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	ZnDis	mg/L	0.004	0.002	0.005	SWSD0213-080821	10574254015	0.0056	0.002	0.005	33.3	0.0016
LC-CLV-1	2021-08-08	SWSD0212-080821	10574254014	10574254	ZnTR	µg/L	1520	9.8	25	SWSD0213-080821	10574254015	1750	9.8	25	14.1	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	AsDis	mg/L	0.0095	0.000083	0.0005	SWSD0225-080821	10574254027	0.0097	0.000083	0.0005	2.1	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	AsTR	µg/L	58.8	0.083	0.5	SWSD0225-080821	10574254027	62.2	0.083	0.5	5.6	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	CdDis	mg/L	0.000039	0.000016	0.00008	SWSD0225-080821	10574254027	0.000047	0.000016	0.00008	18.6	0.000008
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	CdTR	µg/L	3.1	0.016	0.08	SWSD0225-080821	10574254027	3.4	0.016	0.08	9.2	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	CuDis	mg/L	0.031	0.0005	0.001	SWSD0225-080821	10574254027	0.027	0.0005	0.001	13.8	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	CuTR	µg/L	2150	10	20	SWSD0225-080821	10574254027	2240	10	20	4.1	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	FeDis	mg/L	0.22	0.012	0.05	SWSD0225-080821	10574254027	0.22	0.012	0.05	0.0	0
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	FeTR	µg/L	49100	242	1000	SWSD0225-080821	10574254027	52800	242	1000	7.3	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	HgDis	µg/L	0.045	0.045	0.2	SWSD0225-080821	10574254027	0.045	0.045	0.2	0.0	0
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	HgTR	mg/L	0.00024	0.000045	0.0002	SWSD0225-080821	10574254027	0.00024	0.000045	0.0002	0.0	0
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	PbDis	mg/L	0.00094	0.000028	0.0001	SWSD0225-080821	10574254027	0.00086	0.000028	0.0001	8.9	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	PbTR	µg/L	237	0.028	0.1	SWSD0225-080821	10574254027	249	0.028	0.1	4.9	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	SO4	mg/L	41.9	6	12.5	SWSD0225-080821	10574254027	39	1.2	2.5	7.2	2.9
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	TSS	mg/L	1820	10	20	SWSD0225-080821	10574254027	1650	10	20	9.8	
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	ZnDis	mg/L	0.011	0.002	0.005	SWSD0225-080821	10574254027	0.0092	0.002	0.005	17.8	0.0018
TX-HD-OUT	2021-08-08	SWSD0224-080821	10574254026	10574254	ZnTR	µg/L	1250	39.4	100	SWSD0225-080821	10574254027	1320	39.4	100	5.5	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	AsDis	mg/L	0.0054	0.000083	0.0005	SWSD0239-081821	10575529012	0.0057	0.000083	0.0005	5.4	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	AsTR	µg/L	37.9	0.083	0.5	SWSD0239-081821	10575529012	40.4	0.083	0.5	6.4	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	CdDis	mg/L	0.000016	0.000016	0.00008	SWSD0239-081821	10575529012	0.000016	0.000016	0.00008	0.0	0
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	CdTR	µg/L	2.5	0.016	0.08	SWSD0239-081821	10575529012	2.8	0.016	0.08	11.3	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	CuDis	mg/L	0.0046	0.0005	0.001	SWSD0239-081821	10575529012	0.0049	0.0005	0.001	6.3	0.0003
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	CuTR	µg/L	869	10	20	SWSD0239-081821	10575529012	955	10	20	9.4	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	FeDis	mg/L	0.46	0.012	0.05	SWSD0239-081821	10575529012	0.46	0.012	0.05	0.0	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	FeTR	µg/L	31100	242	1000	SWSD0239-081821	10575529012	33900	242	1000	8.6	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	HgDis	µg/L	0.045	0.045	0.2	SWSD0239-081821	10575529012	0.045	0.045	0.2	0.0	0
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	HgTR	mg/L	0.00015	0.000045	0.0002	SWSD0239-081821	10575529012	0.00021	0.000045	0.0002	33.3	0.00006
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	PbDis	mg/L	0.0025	0.000028	0.0001	SWSD0239-081821	10575529012	0.0024	0.000028	0.0001	4.1	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	PbTR	µg/L	209	0.028	0.1	SWSD0239-081821	10575529012	222	0.028	0.1	6.0	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	SO4	mg/L	21.5	6	12.5	SWSD0239-081821	10575529012	21.9	6	12.5	1.8	0.4
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	TSS	mg/L	1050	10	20	SWSD0239-081821	10575529012	1130	10	20	7.3	
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	ZnDis	mg/L	0.0064	0.002	0.005	SWSD0239-081821	10575529012	0.0053	0.002	0.005	18.8	0.0011
LC-CLV-1	2021-08-18	SWSD0238-081821	10575529011	10575529	ZnTR	µg/L	964	39.4	100	SWSD0239-081821	10575529012	1060	39.4	100	9.5	
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	AsDis	mg/L	0.0067	0.000083	0.0005	SWSD0246-081821	10575529019	0.0067	0.000083	0.0005	0.0	
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	AsTR	µg/L	35.6	0.41	2.5	SWSD0246-081821	10575529019	32.6	0.41	2.5	8.8	

Highlighted cells indicate Field Precision outside of criteria

Table E3a. BPSOU 2021 Diagnostic Data Quality - Field Duplicates

Location	Monitoring Date	Natural Field ID	Natural Lab ID	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate Field ID	Duplicate Lab ID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	CdDis	mg/L	0.00014	0.000016	0.00008	SWSD0246-081821	10575529019	0.00014	0.000016	0.00008	0.0	0
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	CdTR	µg/L	1.8	0.08	0.4	SWSD0246-081821	10575529019	1.6	0.08	0.4	11.8	0.2
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	CuDis	mg/L	0.065	0.0005	0.001	SWSD0246-081821	10575529019	0.066	0.0005	0.001	1.5	
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	CuTR	µg/L	884	2.5	5	SWSD0246-081821	10575529019	854	2.5	5	3.5	
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	FeDis	mg/L	0.12	0.012	0.05	SWSD0246-081821	10575529019	0.12	0.012	0.05	0.0	0
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	FeTR	µg/L	20800	60.5	250	SWSD0246-081821	10575529019	20400	60.5	250	1.9	
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	HgDis	µg/L	0.045	0.045	0.2	SWSD0246-081821	10575529019	0.045	0.045	0.2	0.0	0
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	HgTR	mg/L	0.000093	0.000045	0.0002	SWSD0246-081821	10575529019	0.00011	0.000045	0.0002	16.8	0.000017
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	PbDis	mg/L	0.0011	0.000028	0.0001	SWSD0246-081821	10575529019	0.0012	0.000028	0.0001	8.7	
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	PbTR	µg/L	136	0.14	0.5	SWSD0246-081821	10575529019	124	0.14	0.5	9.2	
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	SO4	mg/L	28.3	2.4	5	SWSD0246-081821	10575529019	29.8	1.2	2.5	5.2	
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	TSS	mg/L	672	5	10	SWSD0246-081821	10575529019	596	5	10	12.0	
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	ZnDis	mg/L	0.019	0.002	0.005	SWSD0246-081821	10575529019	0.023	0.002	0.005	19.1	0.004
TX-HD-OUT	2021-08-18	SWSD0245-081821	10575529018	10575529	ZnTR	µg/L	636	9.8	25	SWSD0246-081821	10575529019	559	9.8	25	12.9	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	AsDis	mg/L	0.0037	0.000083	0.0005	SWSD0271-082121	10576049016	0.0037	0.000083	0.0005	0.0	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	AsTR	µg/L	9.6	0.083	0.5	SWSD0271-082121	10576049016	10.3	0.083	0.5	7.0	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	CdDis	mg/L	0.000096	0.000016	0.00008	SWSD0271-082121	10576049016	0.000091	0.000016	0.00008	5.4	0.000005
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	CdTR	µg/L	0.46	0.016	0.08	SWSD0271-082121	10576049016	0.5	0.016	0.08	8.3	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	CuDis	mg/L	0.031	0.0005	0.001	SWSD0271-082121	10576049016	0.032	0.0005	0.001	3.2	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	CuTR	µg/L	195	0.5	1	SWSD0271-082121	10576049016	210	0.5	1	7.4	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	FeDis	mg/L	0.045	0.012	0.05	SWSD0271-082121	10576049016	0.044	0.012	0.05	2.3	0.001
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	FeTR	µg/L	5530	12.1	50	SWSD0271-082121	10576049016	6580	12.1	50	17.3	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	HgDis	µg/L	0.045	0.045	0.2	SWSD0271-082121	10576049016	0.045	0.045	0.2	0.0	0
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	HgTR	mg/L	0.000045	0.000045	0.0002	SWSD0271-082121	10576049016	0.000045	0.000045	0.0002	0.0	0
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	PbDis	mg/L	0.00055	0.000028	0.0001	SWSD0271-082121	10576049016	0.00055	0.000028	0.0001	0.0	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	PbTR	µg/L	44	0.028	0.1	SWSD0271-082121	10576049016	46.8	0.028	0.1	6.2	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	SO4	mg/L	25.4	1.2	2.5	SWSD0271-082121	10576049016	23.7	1.2	2.5	6.9	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	TSS	mg/L	209	5	10	SWSD0271-082121	10576049016	204	5	10	2.4	
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	ZnDis	mg/L	0.025	0.002	0.005	SWSD0271-082121	10576049016	0.024	0.002	0.005	4.1	0.001
LC-CLV-1	2021-08-21	SWSD0270-082121	10576049015	10576049	ZnTR	µg/L	196	2	5	SWSD0271-082121	10576049016	203	2	5	3.5	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	AsDis	mg/L	0.006	0.000083	0.0005	SWSD0285-082121	10576049030	0.0058	0.000083	0.0005	3.4	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	AsTR	µg/L	25.2	0.083	0.5	SWSD0285-082121	10576049030	23.9	0.083	0.5	5.3	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	CdDis	mg/L	0.000067	0.000016	0.00008	SWSD0285-082121	10576049030	0.000081	0.000016	0.00008	18.9	0.000014
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	CdTR	µg/L	0.98	0.016	0.08	SWSD0285-082121	10576049030	0.83	0.016	0.08	16.6	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	CuDis	mg/L	0.033	0.0005	0.001	SWSD0285-082121	10576049030	0.032	0.0005	0.001	3.1	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	CuTR	µg/L	460	5	10	SWSD0285-082121	10576049030	446	0.5	1	3.1	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	FeDis	mg/L	0.096	0.012	0.05	SWSD0285-082121	10576049030	0.098	0.012	0.05	2.1	0.002
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	FeTR	µg/L	16200	12.1	50	SWSD0285-082121	10576049030	15300	12.1	50	5.7	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	HgDis	µg/L	0.045	0.045	0.2	SWSD0285-082121	10576049030	0.045	0.045	0.2	0.0	0
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	HgTR	mg/L	0.0001	0.000045	0.0002	SWSD0285-082121	10576049030	0.00011	0.000045	0.0002	9.5	0.00001
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	PbDis	mg/L	0.00061	0.000028	0.0001	SWSD0285-082121	10576049030	0.00078	0.000028	0.0001	24.5	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	PbTR	µg/L	95.4	0.028	0.1	SWSD0285-082121	10576049030	82.8	0.028	0.1	14.1	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	SO4	mg/L	31.4	1.2	2.5	SWSD0285-082121	10576049030	32.2	1.2	2.5	2.5	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	TSS	mg/L	552	5	10	SWSD0285-082121	10576049030	620	5	10	11.6	
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	ZnDis	mg/L	0.015	0.002	0.005	SWSD0285-082121	10576049030	0.019	0.002	0.005	23.5	0.004
TX-HD-OUT	2021-08-21	SWSD0284-082121	10576049029	10576049	ZnTR	µg/L	372	19.7	50	SWSD0285-082121	10576049030	322	19.7	50	14.4	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	AsDis	mg/L	0.011	0.000083	0.0005	SWSD0295-100821	10583383006	0.012	0.000083	0.0005	8.7	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	AsTR	µg/L	14.7	0.083	0.5	SWSD0295-100821	10583383006	15	0.083	0.5	2.0	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	CdDis	mg/L	0.0018	0.000016	0.00008	SWSD0295-100821	10583383006	0.0019	0.000016	0.00008	5.4	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	CdTR	µg/L	2.4	0.016	0.08	SWSD0295-100821	10583383006	2.5	0.016	0.08	4.1	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	CuDis	mg/L	0.063	0.0005	0.001	SWSD0295-100821	10583383006	0.067	0.0005	0.001	6.2	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	CuTR	µg/L	88.2	0.5	1	SWSD0295-100821	10583383006	91.8	0.5	1	4.0	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	FeDis	mg/L	0.15	0.012	0.05	SWSD0295-100821	10583383006	0.16	0.012	0.05	6.5	0.01

Highlighted cells indicate Field Precision outside of criteria

Table E3a. BPSOU 2021 Diagnostic Data Quality - Field Duplicates

Location	Monitoring Date	Natural Field ID	Natural Lab ID	SDG	Param	Unit	Natural Value	Natural MDL	Natural RL	Duplicate Field ID	Duplicate Lab ID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %	Δ (<5X RL)
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	FeTR	µg/L	871	12.1	50	SWSD0295-100821	10583383006	886	12.1	50	1.7	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	HgDis	µg/L	0.045	0.045	0.2	SWSD0295-100821	10583383006	0.045	0.045	0.2	0.0	0
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	HgTR	mg/L	0.000052	0.000045	0.0002	SWSD0295-100821	10583383006	0.000056	0.000045	0.0002	7.4	0.000004
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	PbDis	mg/L	0.0044	0.000028	0.0001	SWSD0295-100821	10583383006	0.0047	0.000028	0.0001	6.6	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	PbTR	µg/L	22.8	0.028	0.1	SWSD0295-100821	10583383006	23.3	0.028	0.1	2.2	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	SO4	mg/L	52.3	2.4	5	SWSD0295-100821	10583383006	53.8	2.4	5	2.8	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	TSS	mg/L	51	5	10	SWSD0295-100821	10583383006	53.4	5	10	4.6	
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	ZnDis	mg/L	0.47	0.039	0.1	SWSD0295-100821	10583383006	0.51	0.039	0.1	8.2	0.04
MG-CLV-0	2021-10-08	SWSD0294-100821	10583383005	10583383	ZnTR	µg/L	585	2	5	SWSD0295-100821	10583383006	602	2	5	2.9	

Highlighted cells indicate Field Precision outside of criteria

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	742567	SW	TSS	2021-05-17	METHOD	2021-05-17	SM 2540D	2021-05-14	HT
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	742567	SW	TSS	2021-05-17	METHOD	2021-05-17	SM 2540D	2021-05-14	HT
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	742567	SW	TSS	2021-05-17	METHOD	2021-05-17	SM 2540D	2021-05-14	HT
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	742730	SW	AsTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	742730	SW	AsTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	742730	SW	AsTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	742730	SW	AsTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	742730	SW	AsTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	742730	SW	CdTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	742730	SW	CdTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	742730	SW	CdTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	742730	SW	CdTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	742730	SW	CdTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	742730	SW	CuTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	742730	SW	CuTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	742730	SW	CuTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	742730	SW	CuTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	742730	SW	CuTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	742730	SW	FeTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	742730	SW	FeTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	742730	SW	FeTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	742730	SW	FeTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	742730	SW	FeTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	742730	SW	PbTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	742730	SW	PbTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	742730	SW	PbTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	742730	SW	PbTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	742730	SW	PbTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	742730	SW	ZnTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	742730	SW	ZnTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	742730	SW	ZnTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	742730	SW	ZnTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	742730	SW	ZnTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	743119	SW	HgDis	2021-05-21	EPA 245.1	2021-05-25	EPA 245.1	2021-06-04	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	743119	SW	HgDis	2021-05-21	EPA 245.1	2021-05-25	EPA 245.1	2021-06-04	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	743119	SW	HgDis	2021-05-21	EPA 245.1	2021-05-25	EPA 245.1	2021-06-04	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	743119	SW	HgDis	2021-05-21	EPA 245.1	2021-05-25	EPA 245.1	2021-06-09	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	743119	SW	HgDis	2021-05-21	EPA 245.1	2021-05-25	EPA 245.1	2021-06-04	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	743237	SW	TSS	2021-05-19	METHOD	2021-05-19	SM 2540D	2021-05-19	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	743985	SW	HgTR	2021-05-24	EPA 245.1	2021-05-25	EPA 245.1	2021-06-04	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	743985	SW	HgTR	2021-05-24	EPA 245.1	2021-05-25	EPA 245.1	2021-06-09	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	743985	SW	HgTR	2021-05-24	EPA 245.1	2021-05-25	EPA 245.1	2021-06-04	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	743985	SW	HgTR	2021-05-24	EPA 245.1	2021-05-25	EPA 245.1	2021-06-04	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	743985	SW	HgTR	2021-05-24	EPA 245.1	2021-05-25	EPA 245.1	2021-06-04	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	744717	SW	SO4	2021-05-27	METHOD	2021-05-27	ASTM D516-90-02	2021-06-04	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	744717	SW	SO4	2021-05-27	METHOD	2021-05-27	ASTM D516-90-02	2021-06-04	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	744717	SW	SO4	2021-05-27	METHOD	2021-05-27	ASTM D516-90-02	2021-06-09	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	744717	SW	SO4	2021-05-27	METHOD	2021-05-27	ASTM D516-90-02	2021-06-04	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	745714	SW	AsDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	745714	SW	AsDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	745714	SW	AsDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	745714	SW	AsDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	745714	SW	AsDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	745714	SW	CdDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	745714	SW	CdDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	745714	SW	CdDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	745714	SW	CdDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	745714	SW	CdDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	745714	SW	CuDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	745714	SW	CuDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	745714	SW	CuDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	745714	SW	CuDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	745714	SW	CuDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	745714	SW	FeDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	745714	SW	FeDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	745714	SW	FeDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	745714	SW	FeDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	745714	SW	FeDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	745714	SW	PbDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	745714	SW	PbDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	745714	SW	PbDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	745714	SW	PbDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	745714	SW	PbDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269004	SWSD0004-050721	745714	SW	ZnDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269005	SWSD0005-050721	745714	SW	ZnDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-07	PACE_MPLS	10560269	10560269002	SWSD0002-050721	745714	SW	ZnDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-12	PACE_MPLS	10560269	10560269003	SWSD0003-051221	745714	SW	ZnDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-08	
2021-05-07	PACE_MPLS	10560269	10560269001	SWSD0001-050721	745714	SW	ZnDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	2021-11-03	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	744609	SW	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	744609	SW	TSS	2021-05-26	METHOD	2021-05-26	SM 2540D	2021-05-26	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	744948	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	744948	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	744948	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	744948	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	744948	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	744948	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	744948	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	744948	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	744949	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	744949	SW	TSS	2021-05-27	METHOD	2021-05-27	SM 2540D	2021-05-27	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	745259	SW	TSS	2021-05-29	METHOD	2021-05-29	SM 2540D	2021-05-31	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-21	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	746688	SW	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913008	SWSD0013-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-21	PACE_MPLS	10561913	10561913016	SWSD0021-052121	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-17	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-14	PACE_MPLS	10561913	10561913014	SWSD0019-051421	746849	SW	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-10	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-21	PACE_MPLS	10561913	10561913016	SWSD0021-052121	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-17	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913008	SWSD0013-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-20	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-14	PACE_MPLS	10561913	10561913014	SWSD0019-051421	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-10	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	746849	SW	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913008	SWSD0013-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-21	PACE_MPLS	10561913	10561913016	SWSD0021-052121	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-17	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-14	PACE_MPLS	10561913	10561913014	SWSD0019-051421	746849	SW	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-10	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-14	PACE_MPLS	10561913	10561913014	SWSD0019-051421	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-10	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-21	PACE_MPLS	10561913	10561913016	SWSD0021-052121	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-17	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-20	PACE_MPLS	10561913	10561913008	SWSD0013-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	746849	SW	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913008	SWSD0013-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-21	PACE_MPLS	10561913	10561913016	SWSD0021-052121	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-17	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-14	PACE_MPLS	10561913	10561913014	SWSD0019-051421	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-10	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	746849	SW	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-14	PACE_MPLS	10561913	10561913014	SWSD0019-051421	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-10	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913008	SWSD0013-052021	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-16	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-15	
2021-05-21	PACE_MPLS	10561913	10561913016	SWSD0021-052121	746849	SW	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	2021-11-17	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-21	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	746852	SW	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-16	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-21	PACE_MPLS	10561913	10561913016	SWSD0021-052121	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-18	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-21	
2021-05-14	PACE_MPLS	10561913	10561913014	SWSD0019-051421	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-11	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913008	SWSD0013-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	746853	SW	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	2021-06-17	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	748326	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	748326	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	748326	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	748326	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	748326	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-24	PACE_MPLS	10561913	10561913013	SWSD0018-052421	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-20	
2021-05-20	PACE_MPLS	10561913	10561913004	SWSD0009-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913015	SWSD0020-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913005	SWSD0010-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913001	SWSD0006-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913009	SWSD0014-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913006	SWSD0011-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913010	SWSD0015-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913002	SWSD0007-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913003	SWSD0008-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-20	PACE_MPLS	10561913	10561913007	SWSD0012-052021	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-16	
2021-05-19	PACE_MPLS	10561913	10561913012	SWSD0017-051921	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-19	PACE_MPLS	10561913	10561913011	SWSD0016-051921	748326	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-15	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	745256	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-28	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	745256	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-28	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	745256	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-28	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	745256	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-28	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-28	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-29	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-28	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-28	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-30	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	745257	SW	TSS	2021-05-28	METHOD	2021-05-28	SM 2540D	2021-05-28	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	745258	SW	TSS	2021-05-29	METHOD	2021-05-29	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	745258	SW	TSS	2021-05-29	METHOD	2021-05-29	SM 2540D	2021-05-30	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	745259	SW	TSS	2021-05-29	METHOD	2021-05-29	SM 2540D	2021-05-30	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	745260	SW	TSS	2021-05-29	METHOD	2021-05-29	SM 2540D	2021-05-31	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	745915	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	745915	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747482	SW	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747482	SW	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-22	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747482	SW	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747482	SW	FeDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-22	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747482	SW	PbDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-22	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747482	SW	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	747484	SW	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-23	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-21	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-19	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-23	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747486	SW	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410030	SWSD0051-052321	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410031	SWSD0052-052321	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747490	SW	AsTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410030	SWSD0051-052321	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410031	SWSD0052-052321	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747490	SW	CdTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410031	SWSD0052-052321	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410030	SWSD0051-052321	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747490	SW	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-17	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410031	SWSD0052-052321	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410030	SWSD0051-052321	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747490	SW	FeTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410030	SWSD0051-052321	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410031	SWSD0052-052321	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747490	SW	PbTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-18	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410031	SWSD0052-052321	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410030	SWSD0051-052321	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-17	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747490	SW	ZnTR	2021-06-09	EPA 200.8	2021-06-11	EPA 200.8	2021-11-20	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-23	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410020	SWSD0041-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	747491	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410030	SWSD0051-052321	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410031	SWSD0052-052321	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-23	PACE_MPLS	10562410	10562410028	SWSD0049-052321	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-19	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-21	
2021-05-23	PACE_MPLS	10562410	10562410029	SWSD0050-052321	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-18	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	747492	SW	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	2021-06-23	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748595	SW	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748595	SW	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748595	SW	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748595	SW	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748595	SW	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-17	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748595	SW	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-18	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-18	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-18	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748856	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
2021-05-21	PACE_MPLS	10562410	10562410024	SWSD0045-052121	748857	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-18	
2021-05-22	PACE_MPLS	10562410	10562410023	SWSD0044-052221	748857	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748857	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-24	PACE_MPLS	10562410	10562410021	SWSD0042-052421	748857	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-21	
2021-05-23	PACE_MPLS	10562410	10562410022	SWSD0043-052321	748857	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-20	
2021-05-21	PACE_MPLS	10562410	10562410025	SWSD0046-052121	748857	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-18	
2021-05-21	PACE_MPLS	10562410	10562410026	SWSD0047-052121	748857	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-18	
2021-05-26	PACE_MPLS	10562410	10562410027	SWSD0048-052621	748857	SW	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	2021-06-23	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410020	SWSD0041-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748968	SW	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410020	SWSD0041-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748968	SW	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410020	SWSD0041-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748968	SW	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410020	SWSD0041-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748968	SW	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410020	SWSD0041-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748968	SW	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410004	SWSD0025-052121	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410003	SWSD0024-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410011	SWSD0032-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410012	SWSD0033-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410016	SWSD0037-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-23	PACE_MPLS	10562410	10562410015	SWSD0036-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410008	SWSD0029-052121	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-21	PACE_MPLS	10562410	10562410007	SWSD0028-052121	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410020	SWSD0041-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410019	SWSD0040-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10562410	10562410018	SWSD0039-052621	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-23	PACE_MPLS	10562410	10562410010	SWSD0031-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410006	SWSD0027-052121	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410009	SWSD0030-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410017	SWSD0038-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-21	PACE_MPLS	10562410	10562410005	SWSD0026-052121	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-17	
2021-05-23	PACE_MPLS	10562410	10562410001	SWSD0022-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410002	SWSD0023-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410014	SWSD0035-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-23	PACE_MPLS	10562410	10562410013	SWSD0034-052321	748968	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-19	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	745916	SW	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	2021-06-02	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-02	HT
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-02	HT
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-02	HT
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-01	HT
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-02	HT
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-02	HT
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-01	HT
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-02	HT
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-02	HT
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-01	HT
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-02	HT
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-02	HT
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-01	HT
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-01	HT
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-01	HT
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	746233	SW	TSS	2021-06-03	METHOD	2021-06-03	SM 2540D	2021-06-01	HT
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	746698	SW	TSS	2021-06-04	METHOD	2021-06-04	SM 2540D	2021-06-08	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	747221	SW	TSS	2021-06-07	METHOD	2021-06-07	SM 2540D	2021-06-08	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748722	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748722	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748722	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748722	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748722	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748722	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748724	SW	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748724	SW	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748724	SW	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748724	SW	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748724	SW	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-21	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748724	SW	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748730	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748730	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748730	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748730	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748730	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748730	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136032	SWSD0084-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136031	SWSD0083-052621	748732	SW	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136031	SWSD0083-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136032	SWSD0084-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748732	SW	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136032	SWSD0084-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136031	SWSD0083-052621	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748732	SW	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136032	SWSD0084-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136031	SWSD0083-052621	748732	SW	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136031	SWSD0083-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136032	SWSD0084-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748732	SW	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-21	
2021-05-26	PACE_MPLS	10563136	10563136031	SWSD0083-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-28	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136032	SWSD0084-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748732	SW	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	2021-11-22	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-29	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748812	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136031	SWSD0083-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-29	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748813	SW	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-29	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748817	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-29	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	748818	SW	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136001	SWSD0053-052621	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136002	SWSD0054-052621	748994	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136003	SWSD0055-052521	749094	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-22	
2021-05-25	PACE_MPLS	10563136	10563136004	SWSD0056-052521	749094	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136010	SWSD0062-052621	749094	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136007	SWSD0059-052521	749094	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-22	
2021-05-25	PACE_MPLS	10563136	10563136008	SWSD0060-052521	749094	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136009	SWSD0061-052621	749094	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136006	SWSD0058-052521	749094	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-22	
2021-05-25	PACE_MPLS	10563136	10563136005	SWSD0057-052521	749094	SW	SO4	2021-06-15	METHOD	2021-06-15	ASTM D516-90-02	2021-06-22	
2021-06-01	PACE_MPLS	10563136	10563136017	SWSD0069-060121	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-29	
2021-05-26	PACE_MPLS	10563136	10563136018	SWSD0070-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136011	SWSD0063-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136012	SWSD0064-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136019	SWSD0071-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136020	SWSD0072-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136021	SWSD0073-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136022	SWSD0074-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136028	SWSD0080-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-06-01	PACE_MPLS	10563136	10563136027	SWSD0079-060121	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-29	
2021-05-26	PACE_MPLS	10563136	10563136013	SWSD0065-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136029	SWSD0081-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-25	PACE_MPLS	10563136	10563136030	SWSD0082-052521	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-22	
2021-05-26	PACE_MPLS	10563136	10563136014	SWSD0066-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136026	SWSD0078-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136023	SWSD0075-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-05-26	PACE_MPLS	10563136	10563136024	SWSD0076-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136025	SWSD0077-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136015	SWSD0067-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-05-26	PACE_MPLS	10563136	10563136016	SWSD0068-052621	749677	SW	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	2021-06-23	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	749947	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	749948	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	749948	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	749949	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	749949	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	749949	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	749949	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	749949	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	749949	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	749949	SW	TSS	2021-06-17	METHOD	2021-06-17	SM 2540D	2021-06-17	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	750248	SW	TSS	2021-06-18	METHOD	2021-06-18	SM 2540D	2021-06-18	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	750249	SW	TSS	2021-06-18	METHOD	2021-06-18	SM 2540D	2021-06-18	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-13	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	750525	SW	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533033	SWSD0117-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-09	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-09	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-13	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	750526	SW	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-13	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	750528	SW	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-09	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-09	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-13	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	750529	SW	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	2021-07-08	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	750938	SW	TSS	2021-06-22	METHOD	2021-06-22	SM 2540D	2021-06-22	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	750938	SW	TSS	2021-06-22	METHOD	2021-06-22	SM 2540D	2021-06-22	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751802	SW	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751802	SW	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751802	SW	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751802	SW	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751802	SW	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751802	SW	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751803	SW	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751803	SW	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751803	SW	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751803	SW	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751803	SW	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751803	SW	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751805	SW	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751805	SW	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751805	SW	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751805	SW	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751805	SW	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	751805	SW	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533033	SWSD0117-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751806	SW	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533033	SWSD0117-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751806	SW	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533033	SWSD0117-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751806	SW	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533033	SWSD0117-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751806	SW	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533033	SWSD0117-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751806	SW	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533033	SWSD0117-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-08	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-12	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	751806	SW	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	2021-12-07	
2021-06-10	PACE_MPLS	10565533	10565533013	SWSD0097-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533014	SWSD0098-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-15	PACE_MPLS	10565533	10565533015	SWSD0099-061521	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-13	
2021-06-10	PACE_MPLS	10565533	10565533008	SWSD0092-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533009	SWSD0093-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533019	SWSD0103-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533020	SWSD0104-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533018	SWSD0102-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533016	SWSD0100-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533017	SWSD0101-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533011	SWSD0095-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533010	SWSD0094-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533004	SWSD0088-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533012	SWSD0096-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533007	SWSD0091-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533006	SWSD0090-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533005	SWSD0089-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533002	SWSD0086-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533001	SWSD0085-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533003	SWSD0087-061021	752067	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-11	PACE_MPLS	10565533	10565533026	SWSD0110-061121	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-09	
2021-06-11	PACE_MPLS	10565533	10565533025	SWSD0109-061121	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-09	
2021-06-10	PACE_MPLS	10565533	10565533034	SWSD0118-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533027	SWSD0111-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533028	SWSD0112-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-15	PACE_MPLS	10565533	10565533024	SWSD0108-061521	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-13	
2021-06-10	PACE_MPLS	10565533	10565533023	SWSD0107-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533022	SWSD0106-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533031	SWSD0115-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533032	SWSD0116-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533030	SWSD0114-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533029	SWSD0113-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-06-10	PACE_MPLS	10565533	10565533021	SWSD0105-061021	752069	SW	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	754659	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	754659	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	754659	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	754875	SW	TSS	2021-07-08	METHOD	2021-07-08	SM 2540D	2021-07-08	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755294	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755294	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755294	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755294	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755294	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755294	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755295	SW	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755295	SW	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755295	SW	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755295	SW	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755295	SW	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755295	SW	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755299	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755299	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755299	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755299	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755299	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755299	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970026	SWSD0144-070121	755300	SW	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970026	SWSD0144-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755300	SW	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970026	SWSD0144-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755300	SW	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970026	SWSD0144-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755300	SW	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970026	SWSD0144-070121	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755300	SW	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970026	SWSD0144-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2022-01-03	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755300	SW	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	2021-12-28	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-08-04	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755323	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-08-04	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755324	SW	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-08-04	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	755326	SW	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-08-04	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970026	SWSD0144-070121	755327	SW	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	2021-07-29	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	755892	SW	TSS	2021-07-13	METHOD	2021-07-13	SM 2540D	2021-07-14	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	755892	SW	TSS	2021-07-13	METHOD	2021-07-13	SM 2540D	2021-07-14	
2021-07-01	PACE_MPLS	10568970	10568970005	SWSD0123-070121	757085	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970007	SWSD0125-070121	757085	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970010	SWSD0128-070121	757085	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970022	SWSD0140-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970023	SWSD0141-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970015	SWSD0133-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970016	SWSD0134-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-07	PACE_MPLS	10568970	10568970014	SWSD0132-070721	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-04	
2021-07-01	PACE_MPLS	10568970	10568970013	SWSD0131-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970025	SWSD0143-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-07	PACE_MPLS	10568970	10568970024	SWSD0142-070721	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-08-04	
2021-07-01	PACE_MPLS	10568970	10568970017	SWSD0135-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970020	SWSD0138-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970021	SWSD0139-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970019	SWSD0137-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970018	SWSD0136-070121	757107	SW	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970012	SWSD0130-070121	757775	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970003	SWSD0121-070121	757775	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970011	SWSD0129-070121	757775	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970008	SWSD0126-070121	757775	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970009	SWSD0127-070121	757977	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970006	SWSD0124-070121	757977	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970002	SWSD0120-070121	757977	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
2021-07-01	PACE_MPLS	10568970	10568970004	SWSD0122-070121	757977	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-07-01	PACE_MPLS	10568970	10568970001	SWSD0119-070121	757977	SW	SO4	2021-07-21	METHOD	2021-07-21	ASTM D516-90-02	2021-07-29	
2021-07-20	PACE_MPLS	10571347	10571347005	SWSD0149-072021	758725	SW	AsTR	2021-07-26	EPA 200.8	2021-08-04	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347004	SWSD0148-072021	758725	SW	AsTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347001	SWSD0145-072021	758725	SW	AsTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347002	SWSD0146-072021	758725	SW	AsTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-22	PACE_MPLS	10571347	10571347003	SWSD0147-072221	758725	SW	AsTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-18	
2021-07-22	PACE_MPLS	10571347	10571347003	SWSD0147-072221	758725	SW	CdTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-18	
2021-07-20	PACE_MPLS	10571347	10571347002	SWSD0146-072021	758725	SW	CdTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347001	SWSD0145-072021	758725	SW	CdTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347004	SWSD0148-072021	758725	SW	CdTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347005	SWSD0149-072021	758725	SW	CdTR	2021-07-26	EPA 200.8	2021-08-04	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347005	SWSD0149-072021	758725	SW	CuTR	2021-07-26	EPA 200.8	2021-08-04	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347004	SWSD0148-072021	758725	SW	CuTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347001	SWSD0145-072021	758725	SW	CuTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347002	SWSD0146-072021	758725	SW	CuTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-22	PACE_MPLS	10571347	10571347003	SWSD0147-072221	758725	SW	CuTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-18	
2021-07-20	PACE_MPLS	10571347	10571347001	SWSD0145-072021	758725	SW	FeTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-22	PACE_MPLS	10571347	10571347003	SWSD0147-072221	758725	SW	FeTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-18	
2021-07-20	PACE_MPLS	10571347	10571347002	SWSD0146-072021	758725	SW	FeTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347005	SWSD0149-072021	758725	SW	FeTR	2021-07-26	EPA 200.8	2021-08-04	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347004	SWSD0148-072021	758725	SW	FeTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347004	SWSD0148-072021	758725	SW	PbTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347005	SWSD0149-072021	758725	SW	PbTR	2021-07-26	EPA 200.8	2021-08-04	EPA 200.8	2022-01-16	
2021-07-22	PACE_MPLS	10571347	10571347003	SWSD0147-072221	758725	SW	PbTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-18	
2021-07-20	PACE_MPLS	10571347	10571347001	SWSD0145-072021	758725	SW	PbTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347002	SWSD0146-072021	758725	SW	PbTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-22	PACE_MPLS	10571347	10571347003	SWSD0147-072221	758725	SW	ZnTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-18	
2021-07-20	PACE_MPLS	10571347	10571347001	SWSD0145-072021	758725	SW	ZnTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347002	SWSD0146-072021	758725	SW	ZnTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347005	SWSD0149-072021	758725	SW	ZnTR	2021-07-26	EPA 200.8	2021-08-04	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347004	SWSD0148-072021	758725	SW	ZnTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	2022-01-16	
2021-07-20	PACE_MPLS	10571347	10571347002	SWSD0146-072021	758733	SW	HgTR	2021-07-26	EPA 245.1	2021-07-27	EPA 245.1	2021-08-17	
2021-07-22	PACE_MPLS	10571347	10571347003	SWSD0147-072221	758733	SW	HgTR	2021-07-26	EPA 245.1	2021-07-27	EPA 245.1	2021-08-19	
2021-07-20	PACE_MPLS	10571347	10571347004	SWSD0148-072021	758733	SW	HgTR	2021-07-26	EPA 245.1	2021-07-27	EPA 245.1	2021-08-17	
2021-07-20	PACE_MPLS	10571347	10571347005	SWSD0149-072021	758733	SW	HgTR	2021-07-26	EPA 245.1	2021-07-27	EPA 245.1	2021-08-17	
2021-07-20	PACE_MPLS	10571347	10571347001	SWSD0145-072021	758733	SW	HgTR	2021-07-26	EPA 245.1	2021-07-27	EPA 245.1	2021-08-17	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	761629	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	761631	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	761632	SW	TSS	2021-08-06	METHOD	2021-08-06	SM 2540D	2021-08-08	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	761990	SW	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	761990	SW	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	761990	SW	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	761990	SW	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	761990	SW	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	761990	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	761991	SW	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	761991	SW	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	761991	SW	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	761991	SW	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	761991	SW	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	761991	SW	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	761992	SW	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	761992	SW	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	761992	SW	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	761992	SW	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	761992	SW	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	761992	SW	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	762131	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	762131	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	762131	SW	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	762131	SW	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	762131	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	762131	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	762132	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	762132	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	762132	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	762132	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	762132	SW	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	762132	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163046	SWSD0195-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	762133	SW	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163046	SWSD0195-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	762133	SW	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163046	SWSD0195-080121	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	762133	SW	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163046	SWSD0195-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	762133	SW	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163046	SWSD0195-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	762133	SW	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163046	SWSD0195-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-30	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-18	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	762133	SW	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	2022-01-28	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-31	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	762184	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-31	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	762185	SW	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-31	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	762187	SW	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-31	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	762188	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-31	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	762190	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-31	
2021-08-01	PACE_MPLS	10573163	10573163046	SWSD0195-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163049	SWSD0198-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	762191	SW	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	762344	SW	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-10	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	762344	SW	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-10	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	762344	SW	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	2021-08-10	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-01	PACE_MPLS	10573163	10573163003	SWSD0152-080121	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163002	SWSD0151-080121	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163001	SWSD0150-080121	763352	SW	SO4	2021-08-16	METHOD	2021-08-16	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163010	SWSD0159-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163022	SWSD0171-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163023	SWSD0172-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163012	SWSD0161-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163011	SWSD0160-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163014	SWSD0163-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163013	SWSD0162-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163015	SWSD0164-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163019	SWSD0168-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163018	SWSD0167-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163017	SWSD0166-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163016	SWSD0165-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163008	SWSD0157-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163009	SWSD0158-080321	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-31	
2021-08-01	PACE_MPLS	10573163	10573163020	SWSD0169-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163021	SWSD0170-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163006	SWSD0155-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163005	SWSD0154-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163007	SWSD0156-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163004	SWSD0153-080121	764344	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163028	SWSD0177-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163029	SWSD0178-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163030	SWSD0179-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163041	SWSD0190-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163033	SWSD0182-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163032	SWSD0181-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163043	SWSD0192-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163042	SWSD0191-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163031	SWSD0180-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163034	SWSD0183-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163035	SWSD0184-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163024	SWSD0173-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-31	
2021-08-01	PACE_MPLS	10573163	10573163026	SWSD0175-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163027	SWSD0176-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163037	SWSD0186-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163038	SWSD0187-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163036	SWSD0185-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163039	SWSD0188-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163040	SWSD0189-080121	764345	SW	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163045	SWSD0194-080321	764346	SW	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90	2021-08-31	
2021-08-01	PACE_MPLS	10573163	10573163047	SWSD0196-080121	764346	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163048	SWSD0197-080121	764346	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90	2021-08-29	
2021-08-01	PACE_MPLS	10573163	10573163044	SWSD0193-080121	764346	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90	2021-08-29	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	764616	SW	AsTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	2022-01-30	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	764616	SW	CdTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	2022-01-30	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	764616	SW	CuTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	2022-01-30	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	764616	SW	FeTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	2022-01-30	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	764616	SW	PbTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	2022-01-30	
2021-08-03	PACE_MPLS	10573163	10573163025	SWSD0174-080321	764616	SW	ZnTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	2022-01-30	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-18	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763323	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763326	SW	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	2021-08-15	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763827	SW	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763827	SW	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-07	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763827	SW	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763827	SW	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763827	SW	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763827	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763828	SW	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763828	SW	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763828	SW	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763828	SW	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763828	SW	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763828	SW	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-08	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763831	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-08	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763832	SW	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763890	SW	AsTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763890	SW	CdTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763890	SW	CuTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763890	SW	FeTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763890	SW	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763890	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-20	EPA 200.8	2022-02-04	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-08	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	763893	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-08	
2021-08-08	PACE_MPLS	10574254	10574254029	SWSD0227-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763894	SW	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254029	SWSD0227-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763896	SW	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254029	SWSD0227-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763896	SW	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254029	SWSD0227-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763896	SW	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254029	SWSD0227-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763896	SW	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254029	SWSD0227-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763896	SW	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254029	SWSD0227-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-07	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	763896	SW	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	2022-02-04	
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	764144	SW	TSS	2021-08-18	METHOD	2021-08-18	SM 2540D	2021-08-18	
2021-08-08	PACE_MPLS	10574254	10574254001	SWSD0199-080821	764633	SW	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254002	SWSD0200-080821	764633	SW	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254003	SWSD0201-080821	764633	SW	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254004	SWSD0202-080821	764633	SW	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254005	SWSD0203-080821	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254006	SWSD0204-080821	764633	SW	SO4	2021-08-20	METHOD	2021-08-20	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254007	SWSD0205-080821	764633	SW	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254015	SWSD0213-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254021	SWSD0219-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254014	SWSD0212-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254012	SWSD0210-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254013	SWSD0211-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254025	SWSD0223-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254024	SWSD0222-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254026	SWSD0224-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254027	SWSD0225-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-11	PACE_MPLS	10574254	10574254016	SWSD0214-081121	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-08	
2021-08-08	PACE_MPLS	10574254	10574254017	SWSD0215-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254018	SWSD0216-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254019	SWSD0217-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254020	SWSD0218-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254023	SWSD0221-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254022	SWSD0220-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254008	SWSD0206-080821	765934	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-05	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-11	PACE_MPLS	10574254	10574254028	SWSD0226-081121	765965	SW	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	2021-09-08	
2021-08-08	PACE_MPLS	10574254	10574254011	SWSD0209-080821	766356	SW	SO4	2021-08-27	METHOD	2021-08-27	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254009	SWSD0207-080821	766356	SW	SO4	2021-08-27	METHOD	2021-08-27	ASTM D516-90	2021-09-05	
2021-08-08	PACE_MPLS	10574254	10574254010	SWSD0208-080821	766356	SW	SO4	2021-08-27	METHOD	2021-08-27	ASTM D516-90	2021-09-05	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765401	SW	TSS	2021-08-24	METHOD	2021-08-24	SM 2540D	2021-08-25	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765478	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765478	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765478	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765478	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765478	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765478	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765481	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765481	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765481	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765481	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765481	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765481	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765481	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	765481	SW	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	765481	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765481	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765481	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765481	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765481	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765481	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765481	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765481	SW	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765481	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765481	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765481	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765481	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765481	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	765481	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765481	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765481	SW	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765481	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765481	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765481	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765481	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765481	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	765481	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765481	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765481	SW	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765481	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765481	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765481	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765481	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765481	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765481	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765481	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	765481	SW	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	765481	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765481	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765481	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765481	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765481	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765481	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765481	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765481	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765481	SW	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529007	SWSD0234-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765483	SW	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529007	SWSD0234-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765483	SW	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529007	SWSD0234-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765483	SW	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529007	SWSD0234-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765483	SW	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529007	SWSD0234-081821	765483	SW	PbTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-18	PACE_MPLS	10575529	10575529007	SWSD0234-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765483	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529028	SWSD0255-082021	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529024	SWSD0251-081821	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529025	SWSD0252-082021	765484	SW	AsTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529025	SWSD0252-082021	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529028	SWSD0255-082021	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529024	SWSD0251-081821	765484	SW	CdTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529024	SWSD0251-081821	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529025	SWSD0252-082021	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529028	SWSD0255-082021	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765484	SW	CuTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529024	SWSD0251-081821	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529025	SWSD0252-082021	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529028	SWSD0255-082021	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765484	SW	FeTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529028	SWSD0255-082021	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529024	SWSD0251-081821	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529025	SWSD0252-082021	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765484	SW	PbTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529028	SWSD0255-082021	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-20	PACE_MPLS	10575529	10575529025	SWSD0252-082021	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529024	SWSD0251-081821	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765484	SW	ZnTR	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	2022-02-14	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-17	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765485	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765486	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-17	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765486	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765486	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765486	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765486	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765486	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-17	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765486	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	765486	SW	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-17	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-17	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	765487	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765488	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-17	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	765488	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	765488	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-17	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	765488	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	765488	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529025	SWSD0252-082021	765488	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-17	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765488	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-17	
2021-08-18	PACE_MPLS	10575529	10575529017	SWSD0244-081821	765488	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529023	SWSD0250-081821	765488	SW	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	765773	SW	TSS	2021-08-25	METHOD	2021-08-25	SM 2540D	2021-08-27	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	765773	SW	TSS	2021-08-25	METHOD	2021-08-25	SM 2540D	2021-08-27	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	765773	SW	TSS	2021-08-25	METHOD	2021-08-25	SM 2540D	2021-08-27	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	765773	SW	TSS	2021-08-25	METHOD	2021-08-25	SM 2540D	2021-08-27	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	766686	SW	AsTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	766686	SW	CdTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	766686	SW	CuTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	766686	SW	FeTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	766686	SW	PbTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	2022-02-16	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	766686	SW	ZnTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	2022-02-16	
2021-08-18	PACE_MPLS	10575529	10575529015	SWSD0242-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529005	SWSD0232-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529009	SWSD0236-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529010	SWSD0237-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529018	SWSD0245-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529019	SWSD0246-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-18	PACE_MPLS	10575529	10575529001	SWSD0228-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529014	SWSD0241-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529011	SWSD0238-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529012	SWSD0239-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529013	SWSD0240-082021	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-17	
2021-08-18	PACE_MPLS	10575529	10575529002	SWSD0229-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529004	SWSD0231-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529003	SWSD0230-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529016	SWSD0243-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529008	SWSD0235-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529006	SWSD0233-081821	767233	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-18	PACE_MPLS	10575529	10575529022	SWSD0249-081821	767234	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-15	
2021-08-20	PACE_MPLS	10575529	10575529027	SWSD0254-082021	767234	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-17	
2021-08-20	PACE_MPLS	10575529	10575529026	SWSD0253-082021	767234	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-17	
2021-08-20	PACE_MPLS	10575529	10575529020	SWSD0247-082021	767234	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766367	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766423	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766423	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766423	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766423	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766423	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766423	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766423	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766423	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766423	SW	TSS	2021-08-27	METHOD	2021-08-27	SM 2540D	2021-08-28	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-22	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766484	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-22	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766485	SW	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-22	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766489	SW	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-22	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049032	SWSD0287-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049034	SWSD0289-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766491	SW	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766495	SW	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766495	SW	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766495	SW	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766495	SW	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766495	SW	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766495	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766500	SW	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-21	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766500	SW	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766500	SW	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766500	SW	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766500	SW	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766500	SW	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766503	SW	AsTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766503	SW	CdTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766503	SW	CuTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766503	SW	FeTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766503	SW	PbTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	766503	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049032	SWSD0287-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049034	SWSD0289-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766505	SW	AsTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049034	SWSD0289-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049032	SWSD0287-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766505	SW	CdTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049032	SWSD0287-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049034	SWSD0289-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766505	SW	CuTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049032	SWSD0287-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049034	SWSD0289-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766505	SW	FeTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049034	SWSD0289-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049032	SWSD0287-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766505	SW	PbTR	2021-08-27	EPA 200.8	2021-09-07	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049034	SWSD0289-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049033	SWSD0288-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-21	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049032	SWSD0287-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	766505	SW	ZnTR	2021-08-27	EPA 200.8	2021-09-01	EPA 200.8	2022-02-17	
2021-08-21	PACE_MPLS	10576049	10576049005	SWSD0260-082121	767235	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049004	SWSD0259-082121	767235	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049003	SWSD0258-082121	767235	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049002	SWSD0257-082121	767235	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-08-21	PACE_MPLS	10576049	10576049001	SWSD0256-082121	767235	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049011	SWSD0266-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049012	SWSD0267-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049010	SWSD0265-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049008	SWSD0263-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049009	SWSD0264-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049007	SWSD0262-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-22	
2021-08-21	PACE_MPLS	10576049	10576049016	SWSD0271-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049018	SWSD0273-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049024	SWSD0279-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049015	SWSD0270-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049025	SWSD0280-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049013	SWSD0268-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049014	SWSD0269-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049022	SWSD0277-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049023	SWSD0278-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049021	SWSD0276-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049006	SWSD0261-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049020	SWSD0275-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049019	SWSD0274-082121	767239	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049028	SWSD0283-082121	767242	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049030	SWSD0285-082121	767242	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049029	SWSD0284-082121	767242	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	767242	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-22	
2021-08-21	PACE_MPLS	10576049	10576049026	SWSD0281-082121	767242	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-21	PACE_MPLS	10576049	10576049027	SWSD0282-082121	767242	SW	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	2021-09-18	
2021-08-25	PACE_MPLS	10576049	10576049031	SWSD0286-082521	767291	SW	TSS	2021-08-31	METHOD	2021-08-31	SM 2540D	2021-09-01	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	767291	SW	TSS	2021-08-31	METHOD	2021-08-31	SM 2540D	2021-09-01	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	768143	SW	AsTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-21	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	768143	SW	CdTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-21	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	768143	SW	CuTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-21	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	768143	SW	FeTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-21	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	768143	SW	PbTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-21	
2021-08-25	PACE_MPLS	10576049	10576049017	SWSD0272-082521	768143	SW	ZnTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	2022-02-21	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777254	SW	TSS	2021-10-15	METHOD	2021-10-15	SM 2540D	2021-10-15	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777254	SW	TSS	2021-10-15	METHOD	2021-10-15	SM 2540D	2021-10-15	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777254	SW	TSS	2021-10-15	METHOD	2021-10-15	SM 2540D	2021-10-15	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777254	SW	TSS	2021-10-15	METHOD	2021-10-15	SM 2540D	2021-10-15	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777254	SW	TSS	2021-10-15	METHOD	2021-10-15	SM 2540D	2021-10-15	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777254	SW	TSS	2021-10-15	METHOD	2021-10-15	SM 2540D	2021-10-15	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777579	SW	AsDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777579	SW	AsDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777579	SW	AsDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777579	SW	AsDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777579	SW	AsDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777579	SW	AsDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777579	SW	AsDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777579	SW	CdDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777579	SW	CdDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777579	SW	CdDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777579	SW	CdDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777579	SW	CdDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777579	SW	CdDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777579	SW	CdDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777579	SW	CuDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777579	SW	CuDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777579	SW	CuDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777579	SW	CuDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777579	SW	CuDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777579	SW	CuDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777579	SW	CuDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777579	SW	FeDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777579	SW	FeDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777579	SW	FeDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777579	SW	FeDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777579	SW	FeDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777579	SW	FeDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777579	SW	FeDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777579	SW	PbDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777579	SW	PbDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777579	SW	PbDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777579	SW	PbDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777579	SW	PbDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777579	SW	PbDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777579	SW	PbDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777579	SW	ZnDis	2021-10-20	EPA 200.8	2021-10-27	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777579	SW	ZnDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777579	SW	ZnDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777579	SW	ZnDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777579	SW	ZnDis	2021-10-20	EPA 200.8	2021-10-27	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777579	SW	ZnDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777579	SW	ZnDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777580	SW	AsTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777580	SW	AsTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777580	SW	AsTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777580	SW	AsTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777580	SW	AsTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777580	SW	AsTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777580	SW	AsTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777580	SW	CdTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777580	SW	CdTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777580	SW	CdTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777580	SW	CdTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777580	SW	CdTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777580	SW	CdTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777580	SW	CdTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777580	SW	CuTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777580	SW	CuTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777580	SW	CuTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777580	SW	CuTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777580	SW	CuTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777580	SW	CuTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777580	SW	CuTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777580	SW	FeTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777580	SW	FeTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777580	SW	FeTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777580	SW	FeTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777580	SW	FeTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777580	SW	FeTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777580	SW	FeTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777580	SW	PbTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777580	SW	PbTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777580	SW	PbTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777580	SW	PbTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777580	SW	PbTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777580	SW	PbTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777580	SW	PbTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777580	SW	ZnTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777580	SW	ZnTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777580	SW	ZnTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-12	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777580	SW	ZnTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777580	SW	ZnTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777580	SW	ZnTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777580	SW	ZnTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	2022-04-06	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	777584	SW	HgDis	2021-10-20	EPA 245.1	2021-10-21	EPA 245.1	2021-11-05	

Table E3b. BPSOU 2021 Diagnostic Data Quality - Holding Times

Sample Date	Lab	SDG	LabSampleID	FieldSampleID	Batch ID	Media	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Hold Expires	DV Code
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	777584	SW	HgDis	2021-10-20	EPA 245.1	2021-10-21	EPA 245.1	2021-11-05	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	777584	SW	HgDis	2021-10-20	EPA 245.1	2021-10-21	EPA 245.1	2021-11-11	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	777584	SW	HgDis	2021-10-20	EPA 245.1	2021-10-21	EPA 245.1	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	777584	SW	HgDis	2021-10-20	EPA 245.1	2021-10-21	EPA 245.1	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	777584	SW	HgDis	2021-10-20	EPA 245.1	2021-10-21	EPA 245.1	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	777584	SW	HgDis	2021-10-20	EPA 245.1	2021-10-21	EPA 245.1	2021-11-05	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	778371	SW	TSS	2021-10-21	METHOD	2021-10-21	SM 2540D	2021-10-21	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	779894	SW	SO4	2021-10-28	METHOD	2021-10-28	ASTM D516-90	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	779894	SW	SO4	2021-10-28	METHOD	2021-10-28	ASTM D516-90	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	779894	SW	SO4	2021-10-28	METHOD	2021-10-28	ASTM D516-90	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	779894	SW	SO4	2021-10-28	METHOD	2021-10-28	ASTM D516-90	2021-11-05	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	779894	SW	SO4	2021-10-28	METHOD	2021-10-28	ASTM D516-90	2021-11-11	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	779894	SW	SO4	2021-10-28	METHOD	2021-10-28	ASTM D516-90	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	779894	SW	SO4	2021-10-28	METHOD	2021-10-28	ASTM D516-90	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383001	SWSD0290-100821	780014	SW	HgTR	2021-10-28	EPA 245.1	2021-10-28	EPA 245.1	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383006	SWSD0295-100821	780014	SW	HgTR	2021-10-28	EPA 245.1	2021-10-28	EPA 245.1	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383005	SWSD0294-100821	780014	SW	HgTR	2021-10-28	EPA 245.1	2021-10-28	EPA 245.1	2021-11-05	
2021-10-14	PACE_MPLS	10583383	10583383007	SWSD0296-101421	780014	SW	HgTR	2021-10-28	EPA 245.1	2021-10-28	EPA 245.1	2021-11-11	
2021-10-08	PACE_MPLS	10583383	10583383002	SWSD0291-100821	780014	SW	HgTR	2021-10-28	EPA 245.1	2021-10-28	EPA 245.1	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383003	SWSD0292-100821	780014	SW	HgTR	2021-10-28	EPA 245.1	2021-10-28	EPA 245.1	2021-11-05	
2021-10-08	PACE_MPLS	10583383	10583383004	SWSD0293-100821	780014	SW	HgTR	2021-10-28	EPA 245.1	2021-10-28	EPA 245.1	2021-11-05	

Table E3c. BPSOU 2021 Diagnostic Data Quality - Blanks

SDG	Lab	Field Sample ID	Lab Sample ID	Batch ID	Sample Date	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Units	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10560269	PACE_MPLS	SWSD0003-051221	10560269003	742730	2021-05-12	AsTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	mg/L	0.00014	0.00014	0.0005	J		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	742730	2021-05-12	CdTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	mg/L	0.000081	0.00003	0.00008			
10560269	PACE_MPLS	SWSD0003-051221	10560269003	742730	2021-05-12	CuTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	742730	2021-05-12	FeTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	742730	2021-05-12	PbTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	mg/L	0.00014	0.000043	0.0001			
10560269	PACE_MPLS	SWSD0003-051221	10560269003	742730	2021-05-12	ZnTR	2021-05-19	EPA 200.8	2021-05-27	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	743119	2021-05-12	HgDis	2021-05-21	EPA 245.1	2021-05-25	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	743237	2021-05-12	TSS	2021-05-19	METHOD	2021-05-19	SM 2540D	mg/L	5	5	10	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	743985	2021-05-12	HgTR	2021-05-24	EPA 245.1	2021-05-25	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	744717	2021-05-12	SO4	2021-05-27	METHOD	2021-05-27	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	745714	2021-05-12	AsDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	745714	2021-05-12	CdDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	745714	2021-05-12	CuDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	745714	2021-05-12	FeDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	745714	2021-05-12	PbDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	mg/L	0.000043	0.000043	0.0001	U		
10560269	PACE_MPLS	SWSD0003-051221	10560269003	745714	2021-05-12	ZnDis	2021-06-01	EPA 200.8	2021-06-02	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	745259	2021-05-24	TSS	2021-05-29	METHOD	2021-05-29	SM 2540D	mg/L	5	5	10	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	746688	2021-05-24	SO4	2021-06-04	METHOD	2021-06-04	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	746849	2021-05-24	AsTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	746849	2021-05-24	CdTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	746849	2021-05-24	CuTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	mg/L	0.00054	0.00043	0.001	J		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	746849	2021-05-24	FeTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	746849	2021-05-24	PbTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	mg/L	0.000068	0.000043	0.0001	J		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	746849	2021-05-24	ZnTR	2021-06-07	EPA 200.8	2021-06-08	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	746852	2021-05-24	HgDis	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	746853	2021-05-24	HgTR	2021-06-07	EPA 245.1	2021-06-07	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	748326	2021-05-24	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	748326	2021-05-24	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	748326	2021-05-24	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	748326	2021-05-24	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	748326	2021-05-24	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.000043	0.000043	0.0001	U		
10561913	PACE_MPLS	SWSD0018-052421	10561913013	748326	2021-05-24	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	745915	2021-05-26	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	mg/L	5	5	10	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	745915	2021-05-26	TSS	2021-06-02	METHOD	2021-06-02	SM 2540D	mg/L	5	5	10	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747482	2021-05-26	AsDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747482	2021-05-26	CdDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747482	2021-05-26	CuDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747482	2021-05-26	FeDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747482	2021-05-26	PbDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	mg/L	0.000043	0.000043	0.0001	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747482	2021-05-26	ZnDis	2021-06-09	EPA 200.8	2021-06-12	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	747484	2021-05-26	HgDis	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747486	2021-05-26	HgDis	2021-06-09	EPA 245.1	2021-06-10	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747490	2021-05-26	AsTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747490	2021-05-26	CdTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747490	2021-05-26	CuTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747490	2021-05-26	FeTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747490	2021-05-26	PbTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	mg/L	0.000061	0.000043	0.0001	J		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747490	2021-05-26	ZnTR	2021-06-09	EPA 200.8	2021-06-14	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	747491	2021-05-26	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	747492	2021-05-26	HgTR	2021-06-08	EPA 245.1	2021-06-10	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748595	2021-05-26	AsDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748595	2021-05-26	CdDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748595	2021-05-26	CuDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748595	2021-05-26	FeDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748595	2021-05-26	PbDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.000043	0.000043	0.0001	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748595	2021-05-26	ZnDis	2021-06-13	EPA 200.8	2021-06-15	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748856	2021-05-26	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10562410	PACE_MPLS	SWSD0048-052621	10562410027	748857	2021-05-26	SO4	2021-06-14	METHOD	2021-06-14	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748968	2021-05-26	AsTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		

Table E3c. BPSOU 2021 Diagnostic Data Quality - Blanks

SDG	Lab	Field Sample ID	Lab Sample ID	Batch ID	Sample Date	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Units	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748968	2021-05-26	CdTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748968	2021-05-26	CuTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.0027	0.00043	0.001			
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748968	2021-05-26	FeTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748968	2021-05-26	PbTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.00015	0.000043	0.0001			
10562410	PACE_MPLS	SWSD0039-052621	10562410018	748968	2021-05-26	ZnTR	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	746698	2021-06-01	TSS	2021-06-04	METHOD	2021-06-04	SM 2540D	mg/L	5	5	10	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	747221	2021-06-01	TSS	2021-06-07	METHOD	2021-06-07	SM 2540D	mg/L	5	5	10	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748722	2021-06-01	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748722	2021-06-01	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748722	2021-06-01	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.0017	0.00043	0.001			
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748722	2021-06-01	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748722	2021-06-01	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.000082	0.000043	0.0001	J		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748722	2021-06-01	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748724	2021-06-01	AsDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748724	2021-06-01	CdDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748724	2021-06-01	CuDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748724	2021-06-01	FeDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748724	2021-06-01	PbDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.000043	0.000043	0.0001	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748724	2021-06-01	ZnDis	2021-06-15	EPA 200.8	2021-06-16	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748730	2021-06-01	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748730	2021-06-01	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748730	2021-06-01	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748730	2021-06-01	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748730	2021-06-01	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.000087	0.000043	0.0001	J		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748730	2021-06-01	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748732	2021-06-01	AsTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748732	2021-06-01	CdTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748732	2021-06-01	CuTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748732	2021-06-01	FeTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748732	2021-06-01	PbTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.000074	0.000043	0.0001	J		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748732	2021-06-01	ZnTR	2021-06-15	EPA 200.8	2021-06-17	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748812	2021-06-01	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748813	2021-06-01	HgTR	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	748817	2021-06-01	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	748818	2021-06-01	HgDis	2021-06-14	EPA 245.1	2021-06-16	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10563136	PACE_MPLS	SWSD0069-060121	10563136017	749677	2021-06-01	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10563136	PACE_MPLS	SWSD0079-060121	10563136027	749677	2021-06-01	SO4	2021-06-16	METHOD	2021-06-16	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	750525	2021-06-15	HgTR	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	750526	2021-06-15	HgTR	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	750528	2021-06-15	HgDis	2021-06-23	EPA 245.1	2021-06-28	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	750529	2021-06-15	HgDis	2021-06-23	EPA 245.1	2021-06-24	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	750938	2021-06-15	TSS	2021-06-22	METHOD	2021-06-22	SM 2540D	mg/L	5	5	10	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	750938	2021-06-15	TSS	2021-06-22	METHOD	2021-06-22	SM 2540D	mg/L	5	5	10	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751802	2021-06-15	AsDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751802	2021-06-15	CdDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751802	2021-06-15	CuDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751802	2021-06-15	FeDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751802	2021-06-15	PbDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.000043	0.000043	0.0001	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751802	2021-06-15	ZnDis	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751803	2021-06-15	AsDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751803	2021-06-15	CdDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751803	2021-06-15	CuDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751803	2021-06-15	FeDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751803	2021-06-15	PbDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.000043	0.000043	0.0001	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751803	2021-06-15	ZnDis	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751805	2021-06-15	AsTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751805	2021-06-15	CdTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751805	2021-06-15	CuTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		

Table E3c. BPSOU 2021 Diagnostic Data Quality - Blanks

SDG	Lab	Field Sample ID	Lab Sample ID	Batch ID	Sample Date	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Units	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751805	2021-06-15	FeTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751805	2021-06-15	PbTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.000051	0.000043	0.0001	J		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	751805	2021-06-15	ZnTR	2021-06-25	EPA 200.8	2021-06-30	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751806	2021-06-15	AsTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751806	2021-06-15	CdTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751806	2021-06-15	CuTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751806	2021-06-15	FeTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751806	2021-06-15	PbTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.000078	0.000043	0.0001	J		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	751806	2021-06-15	ZnTR	2021-06-25	EPA 200.8	2021-07-02	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10565533	PACE_MPLS	SWSD0099-061521	10565533015	752067	2021-06-15	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10565533	PACE_MPLS	SWSD0108-061521	10565533024	752069	2021-06-15	SO4	2021-06-25	METHOD	2021-06-25	ASTM D516-90-02	mg/L	1.2	1.2	2.5	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755294	2021-07-07	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755294	2021-07-07	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755294	2021-07-07	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.0055	0.00043	0.001			
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755294	2021-07-07	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.015	0.012	0.05	J		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755294	2021-07-07	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.00014	0.000043	0.0001			
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755294	2021-07-07	ZnDis	2021-07-12	EPA 200.8	2021-07-20	EPA 200.8	mg/L	0.0024	0.002	0.005	J		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755295	2021-07-07	AsDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755295	2021-07-07	CdDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755295	2021-07-07	CuDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755295	2021-07-07	FeDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.012	0.012	0.05	J		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755295	2021-07-07	PbDis	2021-07-12	EPA 200.8	2021-07-15	EPA 200.8	mg/L	0.000043	0.000043	0.0001	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755295	2021-07-07	ZnDis	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755299	2021-07-07	AsTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755299	2021-07-07	CdTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	mg/L	0.000016	0.000016	0.00008	J		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755299	2021-07-07	CuTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755299	2021-07-07	FeTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755299	2021-07-07	PbTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	mg/L	0.000092	0.000028	0.0001	J		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755299	2021-07-07	ZnTR	2021-07-12	EPA 200.8	2021-07-19	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755300	2021-07-07	AsTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	mg/L	0.00014	0.00014	0.0005	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755300	2021-07-07	CdTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	mg/L	0.00003	0.00003	0.00008	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755300	2021-07-07	CuTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	mg/L	0.00043	0.00043	0.001	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755300	2021-07-07	FeTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755300	2021-07-07	PbTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	mg/L	0.000094	0.000043	0.0001	J		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755300	2021-07-07	ZnTR	2021-07-12	EPA 200.8	2021-07-16	EPA 200.8	mg/L	0.0023	0.0023	0.005	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755323	2021-07-07	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755324	2021-07-07	HgDis	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755326	2021-07-07	HgTR	2021-07-13	EPA 245.1	2021-07-21	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755327	2021-07-07	HgTR	2021-07-12	EPA 245.1	2021-07-21	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	755892	2021-07-07	TSS	2021-07-13	METHOD	2021-07-13	SM 2540D	mg/L	5	5	10	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	755892	2021-07-07	TSS	2021-07-13	METHOD	2021-07-13	SM 2540D	mg/L	5	5	10	U		
10568970	PACE_MPLS	SWSD0132-070721	10568970014	757107	2021-07-07	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10568970	PACE_MPLS	SWSD0142-070721	10568970024	757107	2021-07-07	SO4	2021-07-19	METHOD	2021-07-19	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10571347	PACE_MPLS	SWSD0147-072221	10571347003	758725	2021-07-22	AsTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10571347	PACE_MPLS	SWSD0147-072221	10571347003	758725	2021-07-22	CdTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10571347	PACE_MPLS	SWSD0147-072221	10571347003	758725	2021-07-22	CuTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10571347	PACE_MPLS	SWSD0147-072221	10571347003	758725	2021-07-22	FeTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10571347	PACE_MPLS	SWSD0147-072221	10571347003	758725	2021-07-22	PbTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	mg/L	0.000074	0.000028	0.0001	J		
10571347	PACE_MPLS	SWSD0147-072221	10571347003	758725	2021-07-22	ZnTR	2021-07-26	EPA 200.8	2021-08-03	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10571347	PACE_MPLS	SWSD0147-072221	10571347003	758733	2021-07-22	HgTR	2021-07-26	EPA 245.1	2021-07-27	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	761990	2021-08-03	AsDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	761990	2021-08-03	CdDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	761990	2021-08-03	CuDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.0012	0.0005	0.001			
10573163	PACE_MPLS	SWSD0158-080321	10573163009	761990	2021-08-03	FeDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	761990	2021-08-03	PbDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.000029	0.000028	0.0001	J		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	761990	2021-08-03	ZnDis	2021-08-12	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	761991	2021-08-03	AsDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	761991	2021-08-03	CdDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		

Table E3c. BPSOU 2021 Diagnostic Data Quality - Blanks

SDG	Lab	Field Sample ID	Lab Sample ID	Batch ID	Sample Date	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Units	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10573163	PACE_MPLS	SWSD0174-080321	10573163025	761991	2021-08-03	CuDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	761991	2021-08-03	FeDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	761991	2021-08-03	PbDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.000031	0.000028	0.0001	J		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	761991	2021-08-03	ZnDis	2021-08-12	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	761992	2021-08-03	AsDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	761992	2021-08-03	CdDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	761992	2021-08-03	CuDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.00055	0.0005	0.001	J		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	761992	2021-08-03	FeDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	761992	2021-08-03	PbDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.000028	0.000028	0.0001	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	761992	2021-08-03	ZnDis	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	762131	2021-08-03	AsTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	762131	2021-08-03	CdTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	762131	2021-08-03	CuTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	762131	2021-08-03	FeTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	762131	2021-08-03	PbTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	0.000072	0.000028	0.0001	J		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	762131	2021-08-03	ZnTR	2021-08-13	EPA 200.8	2021-08-16	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	762133	2021-08-03	AsTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	762133	2021-08-03	CdTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	762133	2021-08-03	CuTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	762133	2021-08-03	FeTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	762133	2021-08-03	PbTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.000095	0.000028	0.0001	J		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	762133	2021-08-03	ZnTR	2021-08-13	EPA 200.8	2021-08-17	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	762184	2021-08-03	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	mg/L	0.000045	0.000045	0.0002	J,B		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	762185	2021-08-03	HgDis	2021-08-12	EPA 245.1	2021-08-18	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	762187	2021-08-03	HgDis	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	mg/L	0.000054	0.000054	0.00024	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	762188	2021-08-03	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	762190	2021-08-03	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	mg/L	0.000054	0.000054	0.00024	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	762191	2021-08-03	HgTR	2021-08-13	EPA 245.1	2021-08-18	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	762344	2021-08-03	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	mg/L	5	5	10	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	762344	2021-08-03	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	mg/L	5	5	10	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	762344	2021-08-03	TSS	2021-08-10	METHOD	2021-08-10	SM 2540D	mg/L	5	5	10	U		
10573163	PACE_MPLS	SWSD0158-080321	10573163009	764344	2021-08-03	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	764345	2021-08-03	SO4	2021-08-18	METHOD	2021-08-18	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10573163	PACE_MPLS	SWSD0194-080321	10573163045	764346	2021-08-03	SO4	2021-08-19	METHOD	2021-08-19	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	764616	2021-08-03	AsTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	764616	2021-08-03	CdTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	mg/L	0.000019	0.000016	0.00008	J		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	764616	2021-08-03	CuTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	764616	2021-08-03	FeTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	764616	2021-08-03	PbTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	mg/L	0.000092	0.000028	0.0001	J		
10573163	PACE_MPLS	SWSD0174-080321	10573163025	764616	2021-08-03	ZnTR	2021-08-20	EPA 200.8	2021-08-21	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763323	2021-08-11	TSS	2021-08-13	METHOD	2021-08-13	SM 2540D	mg/L	5	5	10	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763827	2021-08-11	AsDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763827	2021-08-11	CdDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763827	2021-08-11	CuDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763827	2021-08-11	FeDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763827	2021-08-11	PbDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	mg/L	0.000028	0.000028	0.0001	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763827	2021-08-11	ZnDis	2021-08-17	EPA 200.8	2021-08-19	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763828	2021-08-11	AsDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763828	2021-08-11	CdDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763828	2021-08-11	CuDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763828	2021-08-11	FeDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763828	2021-08-11	PbDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.000028	0.000028	0.0001	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763828	2021-08-11	ZnDis	2021-08-17	EPA 200.8	2021-08-18	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763831	2021-08-11	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763832	2021-08-11	HgDis	2021-08-17	EPA 245.1	2021-08-19	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763890	2021-08-11	AsTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763890	2021-08-11	CdTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763890	2021-08-11	CuTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	mg/L	0.00061	0.0005	0.001	J		

Table E3c. BPSOU 2021 Diagnostic Data Quality - Blanks

SDG	Lab	Field Sample ID	Lab Sample ID	Batch ID	Sample Date	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Units	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763890	2021-08-11	FeTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	mg/L	0.218	0.0121	0.05			
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763890	2021-08-11	PbTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	mg/L	0.0001	0.000028	0.0001			
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763890	2021-08-11	ZnTR	2021-08-18	EPA 200.8	2021-08-23	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	763893	2021-08-11	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763894	2021-08-11	HgTR	2021-08-18	EPA 245.1	2021-08-19	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763896	2021-08-11	AsTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763896	2021-08-11	CdTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763896	2021-08-11	CuTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763896	2021-08-11	FeTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763896	2021-08-11	PbTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	mg/L	0.00009	0.000028	0.0001	J		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	763896	2021-08-11	ZnTR	2021-08-18	EPA 200.8	2021-08-24	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	764144	2021-08-11	TSS	2021-08-18	METHOD	2021-08-18	SM 2540D	mg/L	5	5	10	U		
10574254	PACE_MPLS	SWSD0214-081121	10574254016	765934	2021-08-11	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10574254	PACE_MPLS	SWSD0226-081121	10574254028	765965	2021-08-11	SO4	2021-08-25	METHOD	2021-08-25	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765478	2021-08-20	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765478	2021-08-20	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765478	2021-08-20	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765478	2021-08-20	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765478	2021-08-20	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.000028	0.000028	0.0001	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765478	2021-08-20	ZnDis	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	765481	2021-08-20	AsDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	765481	2021-08-20	CdDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	765481	2021-08-20	CuDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	765481	2021-08-20	FeDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	765481	2021-08-20	PbDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.000028	0.000028	0.0001	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	765481	2021-08-20	ZnDis	2021-08-25	EPA 200.8	2021-08-26	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765483	2021-08-20	AsTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765483	2021-08-20	CdTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765483	2021-08-20	CuTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765483	2021-08-20	FeTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765483	2021-08-20	PbTR	2021-08-25	EPA 200.8	2021-08-30	EPA 200.8	mg/L	0.00011	0.000028	0.0001	B		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765483	2021-08-20	ZnTR	2021-08-25	EPA 200.8	2021-08-27	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765485	2021-08-20	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	765486	2021-08-20	HgDis	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765487	2021-08-20	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	765488	2021-08-20	HgTR	2021-08-24	EPA 245.1	2021-08-25	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	765773	2021-08-20	TSS	2021-08-25	METHOD	2021-08-25	SM 2540D	mg/L	5	5	10	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	765773	2021-08-20	TSS	2021-08-25	METHOD	2021-08-25	SM 2540D	mg/L	5	5	10	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	766686	2021-08-20	AsTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	766686	2021-08-20	CdTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	766686	2021-08-20	CuTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	mg/L	0.00051	0.0005	0.001	J		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	766686	2021-08-20	FeTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	766686	2021-08-20	PbTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	mg/L	0.00012	0.000028	0.0001			
10575529	PACE_MPLS	SWSD0247-082021	10575529020	766686	2021-08-20	ZnTR	2021-08-30	EPA 200.8	2021-09-01	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10575529	PACE_MPLS	SWSD0240-082021	10575529013	767233	2021-08-20	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10575529	PACE_MPLS	SWSD0247-082021	10575529020	767234	2021-08-20	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	766484	2021-08-25	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766485	2021-08-25	HgDis	2021-08-27	EPA 245.1	2021-09-01	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	766489	2021-08-25	HgTR	2021-08-27	EPA 245.1	2021-09-07	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766491	2021-08-25	HgTR	2021-08-27	EPA 245.1	2021-09-08	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	766495	2021-08-25	AsDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	766495	2021-08-25	CdDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	766495	2021-08-25	CuDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	766495	2021-08-25	FeDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	766495	2021-08-25	PbDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.000028	0.000028	0.0001	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	766495	2021-08-25	ZnDis	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766500	2021-08-25	AsDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766500	2021-08-25	CdDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		

Table E3c. BPSOU 2021 Diagnostic Data Quality - Blanks

SDG	Lab	Field Sample ID	Lab Sample ID	Batch ID	Sample Date	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Units	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766500	2021-08-25	CuDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766500	2021-08-25	FeDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	mg/L	0.012	0.012	0.05	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766500	2021-08-25	PbDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	mg/L	0.000028	0.000028	0.0001	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766500	2021-08-25	ZnDis	2021-08-27	EPA 200.8	2021-09-03	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766505	2021-08-25	AsTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766505	2021-08-25	CdTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.000023	0.000016	0.00008	J,B		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766505	2021-08-25	CuTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766505	2021-08-25	FeTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766505	2021-08-25	PbTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.000098	0.000028	0.0001	J,B		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	766505	2021-08-25	ZnTR	2021-08-27	EPA 200.8	2021-09-02	EPA 200.8	mg/L	0.0031	0.002	0.005	J,B		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	767239	2021-08-25	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	767242	2021-08-25	SO4	2021-09-02	METHOD	2021-09-02	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	767291	2021-08-25	TSS	2021-08-31	METHOD	2021-08-31	SM 2540D	mg/L	5	5	10	U		
10576049	PACE_MPLS	SWSD0286-082521	10576049031	767291	2021-08-25	TSS	2021-08-31	METHOD	2021-08-31	SM 2540D	mg/L	5	5	10	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	768143	2021-08-25	AsTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	768143	2021-08-25	CdTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	mg/L	0.000021	0.000016	0.00008	J		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	768143	2021-08-25	CuTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	768143	2021-08-25	FeTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10576049	PACE_MPLS	SWSD0272-082521	10576049017	768143	2021-08-25	PbTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	mg/L	0.0001	0.000028	0.0001			
10576049	PACE_MPLS	SWSD0272-082521	10576049017	768143	2021-08-25	ZnTR	2021-09-07	EPA 200.8	2021-09-08	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777579	2021-10-14	AsDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777579	2021-10-14	CdDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777579	2021-10-14	CuDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777579	2021-10-14	FeDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	mg/L	0.013	0.012	0.05	J		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777579	2021-10-14	PbDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	mg/L	0.000032	0.000028	0.0001	J		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777579	2021-10-14	ZnDis	2021-10-20	EPA 200.8	2021-10-28	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777580	2021-10-14	AsTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	mg/L	0.000083	0.000083	0.0005	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777580	2021-10-14	CdTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	mg/L	0.000016	0.000016	0.00008	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777580	2021-10-14	CuTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	mg/L	0.0005	0.0005	0.001	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777580	2021-10-14	FeTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	mg/L	0.0121	0.0121	0.05	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777580	2021-10-14	PbTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	mg/L	0.000064	0.000028	0.0001	J,B	UJ	MB
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777580	2021-10-14	ZnTR	2021-10-20	EPA 200.8	2021-10-30	EPA 200.8	mg/L	0.002	0.002	0.005	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	777584	2021-10-14	HgDis	2021-10-20	EPA 245.1	2021-10-21	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	778371	2021-10-14	TSS	2021-10-21	METHOD	2021-10-21	SM 2540D	mg/L	5	5	10	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	779894	2021-10-14	SO4	2021-10-28	METHOD	2021-10-28	ASTM D516-90	mg/L	1.2	1.2	2.5	U		
10583383	PACE_MPLS	SWSD0296-101421	10583383007	780014	2021-10-14	HgTR	2021-10-28	EPA 245.1	2021-10-28	EPA 245.1	mg/L	0.000045	0.000045	0.0002	U		

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10560269	745714	3977710BLANK_10560269	3977710		MB	INITIAL	AsDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:48	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10560269	745714	3977711LCS_10560269	3977711		LCS	INITIAL	AsDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:51	EPA 200.8	0	0.1	0.095	0.00014	0.0005	mg/L	95	0	85	115	0
PACE_MPLS	10560269	745714	SWSD0004-050721MS	3977712	SWSD0004-050721	MS	INITIAL	AsDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:33	EPA 200.8	0.011	0.1	0.1	0.00014	0.0005	mg/L	94	0	70	130	0
PACE_MPLS	10560269	745714	SWSD0004-050721MSD	3977713	SWSD0004-050721	MSD	INITIAL	AsDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:36	EPA 200.8	0.011	0.1	0.11	0.00014	0.0005	mg/L	96	2	70	130	20
PACE_MPLS	10560269	742730	SWSD0004-050721MSD	3961165	SWSD0004-050721	MSD	INITIAL	AsTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 02:24	EPA 200.8	0.0487	0.1	0.154	0.0007	0.0025	mg/L	106	6	70	130	20
PACE_MPLS	10560269	742730	SWSD0004-050721MS	3961164	SWSD0004-050721	MS	INITIAL	AsTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 02:20	EPA 200.8	0.0487	0.1	0.146	0.0007	0.0025	mg/L	97	0	70	130	0
PACE_MPLS	10560269	742730	3961162BLANK_10560269	3961162		MB	INITIAL	AsTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:51	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10560269	742730	3961163LCS_10560269	3961163		LCS	INITIAL	AsTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:55	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	100	0	85	115	0
PACE_MPLS	10560269	745714	3977710BLANK_10560269	3977710		MB	INITIAL	CdDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:48	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10560269	745714	SWSD0004-050721MS	3977712	SWSD0004-050721	MS	INITIAL	CdDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:33	EPA 200.8	0.000074	0.1	0.095	0.00003	0.00008	mg/L	95	0	70	130	0
PACE_MPLS	10560269	745714	3977711LCS_10560269	3977711		LCS	INITIAL	CdDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:51	EPA 200.8	0	0.1	0.095	0.00003	0.00008	mg/L	95	0	85	115	0
PACE_MPLS	10560269	745714	SWSD0004-050721MSD	3977713	SWSD0004-050721	MSD	INITIAL	CdDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:36	EPA 200.8	0.000074	0.1	0.094	0.00003	0.00008	mg/L	94	1	70	130	20
PACE_MPLS	10560269	742730	SWSD0004-050721MSD	3961165	SWSD0004-050721	MSD	INITIAL	CdTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 02:24	EPA 200.8	0.0026	0.1	0.105	0.00015	0.0004	mg/L	102	6	70	130	20
PACE_MPLS	10560269	742730	SWSD0004-050721MS	3961164	SWSD0004-050721	MS	INITIAL	CdTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 02:20	EPA 200.8	0.0026	0.1	0.0984	0.00015	0.0004	mg/L	96	0	70	130	0
PACE_MPLS	10560269	742730	3961163LCS_10560269	3961163		LCS	INITIAL	CdTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:55	EPA 200.8	0	0.1	0.101	0.00003	0.00008	mg/L	101	0	85	115	0
PACE_MPLS	10560269	742730	3961162BLANK_10560269	3961162		MB	INITIAL	CdTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:51	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10560269	745714	3977710BLANK_10560269	3977710		MB	INITIAL	CuDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:48	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10560269	745714	SWSD0004-050721MSD	3977713	SWSD0004-050721	MSD	INITIAL	CuDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:36	EPA 200.8	0.025	0.1	0.12	0.00043	0.001	mg/L	94	1	70	130	20
PACE_MPLS	10560269	745714	3977711LCS_10560269	3977711		LCS	INITIAL	CuDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:51	EPA 200.8	0	0.1	0.096	0.00043	0.001	mg/L	96	0	85	115	0
PACE_MPLS	10560269	745714	SWSD0004-050721MS	3977712	SWSD0004-050721	MS	INITIAL	CuDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:33	EPA 200.8	0.025	0.1	0.12	0.00043	0.001	mg/L	95	0	70	130	0
PACE_MPLS	10560269	742730	SWSD0004-050721MSD	3961165	SWSD0004-050721	MSD	REANALYSIS	CuTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 11:13	EPA 200.8	0.286	0.1	0.398	0.0021	0.005	mg/L	111	7	70	130	20
PACE_MPLS	10560269	742730	SWSD0004-050721MS	3961164	SWSD0004-050721	MS	REANALYSIS	CuTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 11:09	EPA 200.8	0.286	0.1	0.372	0.0021	0.005	mg/L	86	0	70	130	0
PACE_MPLS	10560269	742730	3961162BLANK_10560269	3961162		MB	INITIAL	CuTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:51	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10560269	742730	3961163LCS_10560269	3961163		LCS	INITIAL	CuTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:55	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	100	0	85	115	0
PACE_MPLS	10560269	745714	3977710BLANK_10560269	3977710		MB	INITIAL	FeDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:48	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10560269	745714	SWSD0004-050721MS	3977712	SWSD0004-050721	MS	INITIAL	FeDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:33	EPA 200.8	0.027	2	2	0.012	0.05	mg/L	99	0	70	130	0
PACE_MPLS	10560269	745714	3977711LCS_10560269	3977711		LCS	INITIAL	FeDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:51	EPA 200.8	0	2	2	0.012	0.05	mg/L	101	0	85	115	0
PACE_MPLS	10560269	745714	SWSD0004-050721MSD	3977713	SWSD0004-050721	MSD	INITIAL	FeDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:36	EPA 200.8	0.027	2	2	0.012	0.05	mg/L	100	1	70	130	20
PACE_MPLS	10560269	742730	SWSD0004-050721MS	3961164	SWSD0004-050721	MS	INITIAL	FeTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 02:20	EPA 200.8	27.8	2	30.1	0.06	0.25	mg/L	117	0	70	130	0
PACE_MPLS	10560269	742730	SWSD0004-050721MSD	3961165	SWSD0004-050721	MSD	INITIAL	FeTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 02:24	EPA 200.8	27.8	2	33	0.06	0.25	mg/L	261	9	70	130	20
PACE_MPLS	10560269	742730	3961163LCS_10560269	3961163		LCS	INITIAL	FeTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:55	EPA 200.8	0	2	2.08	0.012	0.05	mg/L	104	0	85	115	0
PACE_MPLS	10560269	742730	3961162BLANK_10560269	3961162		MB	INITIAL	FeTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:51	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10560269	743119	3962894BLANK_10560269	3962894		MB	INITIAL	HgDis	D	1	2021-05-21 11:35	EPA 245.1	2021-05-25 12:33	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10560269	743119	3962895LCS_10560269	3962895		LCS	INITIAL	HgDis	D	1	2021-05-21 11:35	EPA 245.1	2021-05-25 12:35	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	105	0	85	115	0
PACE_MPLS	10560269	743119	SWSD0004-050721MS	3962896	SWSD0004-050721	MS	INITIAL	HgDis	D	1	2021-05-21 11:35	EPA 245.1	2021-05-25 12:42	EPA 245.1	0.00002	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10560269	743119	SWSD0004-050721MSD	3962897	SWSD0004-050721	MSD	INITIAL	HgDis	D	1	2021-05-21 11:35	EPA 245.1	2021-05-25 12:44	EPA 245.1	0.00002	0.005	0.0051	0.000045	0.0002	mg/L	101	4	70	130	20
PACE_MPLS	10560269	743985	SWSD0004-050721MSD	3968378	SWSD0004-050721	MSD	INITIAL	HgTR	T	1	2021-05-24 06:08	EPA 245.1	2021-05-25 12:26	EPA 245.1	0.00014	0.005	0.0048	0.000045	0.0002	mg/L	93	1	70	130	20
PACE_MPLS	10560269	743985	SWSD0004-050721MS	3968377	SWSD0004-050721	MS	INITIAL	HgTR	T	1	2021-05-24 06:08	EPA 245.1	2021-05-25 12:25	EPA 245.1	0.00014	0.005	0.0048	0.000045	0.0002	mg/L	94	0	70	130	0
PACE_MPLS	10560269	743985	3968375BLANK_10560269	3968375		MB	INITIAL	HgTR	T	1	2021-05-24 06:08	EPA 245.1	2021-05-25 12:16	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10560269	743985	3968376LCS_10560269	3968376		LCS	INITIAL	HgTR	T	1	2021-05-24 06:08	EPA 245.1	2021-05-25 12:17	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
PACE_MPLS	10560269	745714	3977710BLANK_10560269	3977710		MB	INITIAL	PbDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:48	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10560269	745714	3977711LCS_10560269	3977711		LCS	INITIAL	PbDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:51	EPA 200.8	0	0.1	0.097	0.000043	0.0001	mg/L	97	0	85	115	0
PACE_MPLS	10560269	745714	SWSD0004-050721MS	3977712	SWSD0004-050721	MS	INITIAL	PbDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:33	EPA 200.8	0.0002	0.1	0.098	0.000043	0.0001	mg/L	98	0	70	130	0
PACE_MPLS	10560269	745714	SWSD0004-050721MSD	3977713	SWSD0004-050721	MSD	INITIAL	PbDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:36	EPA 200.8	0.0002	0.1	0.097	0.000043	0.0001	mg/L	97	2	70	130	20
PACE_MPLS	10560269	742730	3961163LCS_10560269	3961163		LCS	INITIAL	PbTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:55	EPA 200.8	0	0.1	0.105	0.000043	0.0001	mg/L	105	0	85	115	0
PACE_MPLS	10560269	742730	SWSD0004-050721MS	3961164	SWSD0004-050721	MS	INITIAL	PbTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 02:20	EPA 200.8	0.229	0.1	0.316	0.00022	0.0005	mg/L	87	0	70	130	0
PACE_MPLS	10560269	742730	SWSD0004-050721MSD	3961165	SWSD0004-050721	MSD	INITIAL	PbTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 02:24	EPA 200.8	0.229	0.1	0.346	0.00022	0.0005	mg/L	118	9	70	130	20
PACE_MPLS	10560269	742730	3961162BLANK_10560269	3961162		MB	INITIAL	PbTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:51	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10560269	744717	3971481BLANK_10560269	3971481		MB	INITIAL	SO4	T	1	2021-05-27 03:01	METHOD	2021-05-27 03:01	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10560269	744717	3971482LCS_10560269	3971482		LCS	INITIAL	SO4	T	1	2021-05-27 03:01	METHOD	2021-05-27 03:01	ASTM D516-90-02	0	20	20.5	1.2	2.5	mg/L	102	0	80	120	0
PACE_MPLS	10560269	744717	3971483LCSD_10560269	3971483	3971482LCS_10560269	LCSD	INITIAL	SO4	T	1	2021-05-27 03:02	METHOD	2021-05-27 03:02	ASTM D516-90-02	0	20	19.6	1.2	2.5	mg/L	98	4	80	120	20
PACE_MPLS	10560269	744717	SWSD0004-050721MSD	3971485	SWSD0004-050721	MSD	INITIAL	SO4	T	5	2021-05-27 03:06	METHOD	2021-05-27 03:06	ASTM D516-90-02	51	20	98.5	6	12.5	mg/L	237	12	80	120	30
PACE_MPLS	10560269	744717	SWSD0004-050721MS	3971484	SWSD0004-050721	MS	INITIAL	SO4	T	5	2021-05-27 03:05	METHOD	2021-05-27 03:05	ASTM D516-90-02	51	20	111	6	12.5	mg/L	298	0	80	120	0
PACE_MPLS	10560269	742567	SWSD0004-050721DUP	3960291	SWSD0004-050721	LR	INITIAL	TSS	T	1	2021-05-17 10:55	METHOD	2021-05-17 10:55	SM 2540D	675	0	638	25	50	mg/L	0	6	0	0	5
PACE_MPLS	10560269	742567	3960289BLANK_10560269	3960289		MB	INITIAL	TSS	T	1	2021-05-17 10:55	METHOD	2021-05-17 10:55	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10560269	742567	3960290LCS_10560269	3960290		LCS	INITIAL	TSS	T	1	2021-05-17 10:55	METHOD	2021-05-17 10:55	SM 2540D	0	100	104	10	20	mg/L	104	0	80	120	0
PACE_MPLS	10560269	743237	3963581BLANK_10560269	3963581		MB	INITIAL	TSS	T	1	2021-05-19 08:43	METHOD	2021-05-19 08:43	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10560269	743237	3963582LCS_10560269	3963582		LCS	INITIAL	TSS	T	1	2021-05-19 08:43	METHOD	2021-05-19 08:43	SM 2540D	0	100	116	10	20	mg/L	116	0	80	120	0
PACE_MPLS	10560269	745714	3977710BLANK_10560269	3977710		MB	INITIAL	ZnDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:48	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10560269	745714	3977711LCS_10560269	3977711		LCS	INITIAL	ZnDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 08:51	EPA 200.8	0	0.1	0.09	0.0023	0.005	mg/L	90	0	85	115	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10560269	745714	SWSD0004-050721MS	3977712	SWSD0004-050721	MS	INITIAL	ZnDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:33	EPA 200.8	0.0054	0.1	0.095	0.0023	0.005	mg/L	89	0	70	130	0
PACE_MPLS	10560269	745714	SWSD0004-050721MSD	3977713	SWSD0004-050721	MSD	INITIAL	ZnDis	D	1	2021-06-01 12:00	EPA 200.8	2021-06-02 09:36	EPA 200.8	0.0054	0.1	0.093	0.0023	0.005	mg/L	88	2	70	130	20
PACE_MPLS	10560269	742730	SWSD0004-050721MSD	3961165	SWSD0004-050721	MSD	REANALYSIS	ZnTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 11:13	EPA 200.8	0.59	0.1	0.711	0.0114	0.025	mg/L	121	8	70	130	20
PACE_MPLS	10560269	742730	SWSD0004-050721MS	3961164	SWSD0004-050721	MS	REANALYSIS	ZnTR	T	5	2021-05-19 02:42	EPA 200.8	2021-05-27 11:09	EPA 200.8	0.59	0.1	0.653	0.0114	0.025	mg/L	63	0	70	130	0
PACE_MPLS	10560269	742730	3961163LCS_10560269	3961163		LCS	INITIAL	ZnTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:55	EPA 200.8	0	0.1	0.102	0.0023	0.005	mg/L	102	0	85	115	0
PACE_MPLS	10560269	742730	3961162BLANK_10560269	3961162		MB	INITIAL	ZnTR	T	1	2021-05-19 02:42	EPA 200.8	2021-05-27 01:51	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10561913	748326	3991735BLANK_10561913	3991735		MB	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:47	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10561913	748326	3991736LCS_10561913	3991736		LCS	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:54	EPA 200.8	0	0.1	0.096	0.00014	0.0005	mg/L	96	0	85	115	0
PACE_MPLS	10561913	748326	SWSD0006-052021MS	3991737	SWSD0006-052021	MS	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:07	EPA 200.8	0.0042	0.1	0.1	0.00014	0.0005	mg/L	100	0	70	130	0
PACE_MPLS	10561913	748326	SWSD0006-052021MSD	3991738	SWSD0006-052021	MSD	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:11	EPA 200.8	0.0042	0.1	0.1	0.00014	0.0005	mg/L	98	1	70	130	20
PACE_MPLS	10561913	748326	SWSD0016-051921MS	3994445	SWSD0016-051921	MS	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:52	EPA 200.8	0.007	0.1	0.11	0.00014	0.0005	mg/L	102	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0016-051921MS	3983986	SWSD0016-051921	MS	INITIAL	AsTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 07:06	EPA 200.8	0.0103	0.1	0.101	0.00014	0.0005	mg/L	91	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MSD	3983985	SWSD0006-052021	MSD	INITIAL	AsTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:29	EPA 200.8	0.0114	0.1	0.103	0.00014	0.0005	mg/L	92	4	70	130	20
PACE_MPLS	10561913	746849	SWSD0006-052021MS	3983984	SWSD0006-052021	MS	INITIAL	AsTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:26	EPA 200.8	0.0114	0.1	0.0989	0.00014	0.0005	mg/L	87	0	70	130	0
PACE_MPLS	10561913	746849	3983982BLANK_10561913	3983982		MB	INITIAL	AsTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:12	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10561913	746849	3983983LCS_10561913	3983983		LCS	INITIAL	AsTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:15	EPA 200.8	0	0.1	0.0919	0.00014	0.0005	mg/L	92	0	85	115	0
PACE_MPLS	10561913	748326	3991735BLANK_10561913	3991735		MB	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:47	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10561913	748326	SWSD0006-052021MSD	3991738	SWSD0006-052021	MSD	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:11	EPA 200.8	0.00026	0.1	0.097	0.00003	0.00008	mg/L	96	4	70	130	20
PACE_MPLS	10561913	748326	SWSD0006-052021MS	3991737	SWSD0006-052021	MS	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:07	EPA 200.8	0.00026	0.1	0.1	0.00003	0.00008	mg/L	100	0	70	130	0
PACE_MPLS	10561913	748326	3991736LCS_10561913	3991736		LCS	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:54	EPA 200.8	0	0.1	0.096	0.00003	0.00008	mg/L	96	0	85	115	0
PACE_MPLS	10561913	748326	SWSD0016-051921MS	3994445	SWSD0016-051921	MS	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:52	EPA 200.8	0.000039	0.1	0.099	0.00003	0.00008	mg/L	99	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MS	3983984	SWSD0006-052021	MS	INITIAL	CdTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:26	EPA 200.8	0.00086	0.1	0.0941	0.00003	0.00008	mg/L	93	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0016-051921MS	3983986	SWSD0016-051921	MS	INITIAL	CdTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 07:06	EPA 200.8	0.00011	0.1	0.094	0.00003	0.00008	mg/L	94	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MSD	3983985	SWSD0006-052021	MSD	INITIAL	CdTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:29	EPA 200.8	0.00086	0.1	0.0966	0.00003	0.00008	mg/L	96	3	70	130	20
PACE_MPLS	10561913	746849	3983983LCS_10561913	3983983		LCS	INITIAL	CdTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:15	EPA 200.8	0	0.1	0.0969	0.00003	0.00008	mg/L	97	0	85	115	0
PACE_MPLS	10561913	746849	3983982BLANK_10561913	3983982		MB	INITIAL	CdTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:12	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10561913	748326	3991735BLANK_10561913	3991735		MB	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:47	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10561913	748326	SWSD0006-052021MSD	3991738	SWSD0006-052021	MSD	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:11	EPA 200.8	0.014	0.1	0.1	0.00043	0.001	mg/L	90	1	70	130	20
PACE_MPLS	10561913	748326	3991736LCS_10561913	3991736		LCS	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:54	EPA 200.8	0	0.1	0.094	0.00043	0.001	mg/L	94	0	85	115	0
PACE_MPLS	10561913	748326	SWSD0006-052021MS	3991737	SWSD0006-052021	MS	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:07	EPA 200.8	0.014	0.1	0.11	0.00043	0.001	mg/L	91	0	70	130	0
PACE_MPLS	10561913	748326	SWSD0016-051921MS	3994445	SWSD0016-051921	MS	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:52	EPA 200.8	0.017	0.1	0.11	0.00043	0.001	mg/L	90	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0016-051921MS	3983986	SWSD0016-051921	MS	INITIAL	CuTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 07:06	EPA 200.8	0.0681	0.1	0.165	0.00043	0.001	mg/L	97	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MS	3983984	SWSD0006-052021	MS	INITIAL	CuTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:26	EPA 200.8	0.0765	0.1	0.161	0.00043	0.001	mg/L	85	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MSD	3983985	SWSD0006-052021	MSD	INITIAL	CuTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:29	EPA 200.8	0.0765	0.1	0.172	0.00043	0.001	mg/L	95	6	70	130	20
PACE_MPLS	10561913	746849	3983983LCS_10561913	3983983		LCS	INITIAL	CuTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:15	EPA 200.8	0	0.1	0.112	0.00043	0.001	mg/L	112	0	85	115	0
PACE_MPLS	10561913	746849	3983982BLANK_10561913	3983982		MB	INITIAL	CuTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:12	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10561913	748326	3991735BLANK_10561913	3991735		MB	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:47	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10561913	748326	SWSD0006-052021MSD	3991738	SWSD0006-052021	MSD	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:11	EPA 200.8	0.009	2	2	0.012	0.05	mg/L	99	4	70	130	20
PACE_MPLS	10561913	748326	3991736LCS_10561913	3991736		LCS	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:54	EPA 200.8	0	2	2	0.012	0.05	mg/L	100	0	85	115	0
PACE_MPLS	10561913	748326	SWSD0006-052021MS	3991737	SWSD0006-052021	MS	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:07	EPA 200.8	0.009	2	2.1	0.012	0.05	mg/L	102	0	70	130	0
PACE_MPLS	10561913	748326	SWSD0016-051921MS	3994445	SWSD0016-051921	MS	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:52	EPA 200.8	0.099	2	2.1	0.012	0.05	mg/L	102	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0016-051921MS	3983986	SWSD0016-051921	MS	INITIAL	FeTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 07:06	EPA 200.8	2.27	2	4.27	0.012	0.05	mg/L	100	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MS	3983984	SWSD0006-052021	MS	INITIAL	FeTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:26	EPA 200.8	6.44	2	7.79	0.012	0.05	mg/L	67	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MSD	3983985	SWSD0006-052021	MSD	INITIAL	FeTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:29	EPA 200.8	6.44	2	8.41	0.012	0.05	mg/L	98	8	70	130	20
PACE_MPLS	10561913	746849	3983983LCS_10561913	3983983		LCS	INITIAL	FeTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:15	EPA 200.8	0	2	2.04	0.012	0.05	mg/L	102	0	85	115	0
PACE_MPLS	10561913	746849	3983982BLANK_10561913	3983982		MB	INITIAL	FeTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:12	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10561913	746852	3984007BLANK_10561913	3984007		MB	INITIAL	HgDis	D	1	2021-06-07 07:11	EPA 245.1	2021-06-07 12:57	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10561913	746852	3984008LCS_10561913	3984008		LCS	INITIAL	HgDis	D	1	2021-06-07 07:11	EPA 245.1	2021-06-07 12:58	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	95	0	85	115	0
PACE_MPLS	10561913	746852	SWSD0007-052021MS	3984009	SWSD0007-052021	MS	INITIAL	HgDis	D	1	2021-06-07 07:11	EPA 245.1	2021-06-07 01:03	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10561913	746852	SWSD0007-052021MSD	3984010	SWSD0007-052021	MSD	INITIAL	HgDis	D	1	2021-06-07 07:11	EPA 245.1	2021-06-07 01:04	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	2	70	130	20
PACE_MPLS	10561913	746852	SWSD0017-051921MS	3984011	SWSD0017-051921	MS	INITIAL	HgDis	D	1	2021-06-07 07:11	EPA 245.1	2021-06-07 01:22	EPA 245.1	0.00001	0.005	0.0053	0.000045	0.0002	mg/L	105	0	70	130	0
PACE_MPLS	10561913	746853	SWSD0017-051921MS	3984016	SWSD0017-051921	MS	INITIAL	HgTR	T	1	2021-06-07 07:11	EPA 245.1	2021-06-07 02:00	EPA 245.1	0.00002	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10561913	746853	SWSD0007-052021MS	3984014	SWSD0007-052021	MS	INITIAL	HgTR	T	1	2021-06-07 07:11	EPA 245.1	2021-06-07 01:36	EPA 245.1	0.00006	0.005	0.0051	0.000045	0.0002	mg/L	101	0	70	130	0
PACE_MPLS	10561913	746853	SWSD0007-052021MSD	3984015	SWSD0007-052021	MSD	INITIAL	HgTR	T	1	2021-06-07 07:11	EPA 245.1	2021-06-07 01:38	EPA 245.1	0.00006	0.005	0.0049	0.000045	0.0002	mg/L	97	4	70	130	20
PACE_MPLS	10561913	746853	3984012BLANK_10561913	3984012		MB	INITIAL	HgTR	T	1	2021-06-07 07:11	EPA 245.1	2021-06-07 01:30	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10561913	746853	3984013LCS_10561913	3984013		LCS	INITIAL	HgTR	T	1	2021-06-07 07:11	EPA 245.1	2021-06-07 01:32	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	85	115	0
PACE_MPLS	10561913	748326	3991735BLANK_10561913	3991735		MB	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:47	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10561913	748326	SWSD0006-052021MSD	3991738	SWSD0006-052021	MSD	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:11	EPA 200.8	0.00011	0.1	0.1	0.000043	0.0001	mg/L	103	1	70	130	20
PACE_MPLS	10561913	748326	3991736LCS_10561913	3991736		LCS	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:54	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	101	0	85	115	0
PACE_MPLS	10561913	748326	SWSD0006-052021MS	3991737	SWSD0006-052021	MS	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:07	EPA 200.8	0.00011	0.1	0.1	0.000043	0.0001	mg/L	104	0	70	130	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10561913	748326	SWSD0016-051921MS	3994445	SWSD0016-051921	MS	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:52	EPA 200.8	0.00034	0.1	0.11	0.000043	0.0001	mg/L	105	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0016-051921MS	3983986	SWSD0016-051921	MS	INITIAL	PbTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 07:06	EPA 200.8	0.0067	0.1	0.105	0.000043	0.0001	mg/L	98	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MS	3983984	SWSD0006-052021	MS	INITIAL	PbTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:26	EPA 200.8	0.0826	0.1	0.171	0.000043	0.0001	mg/L	88	0	70	130	0
PACE_MPLS	10561913	746849	3983983LCS_10561913	3983983		LCS	INITIAL	PbTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:15	EPA 200.8	0	0.1	0.103	0.000043	0.0001	mg/L	103	0	85	115	0
PACE_MPLS	10561913	746849	SWSD0006-052021MSD	3983985	SWSD0006-052021	MSD	INITIAL	PbTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:29	EPA 200.8	0.0826	0.1	0.183	0.000043	0.0001	mg/L	101	7	70	130	20
PACE_MPLS	10561913	746849	3983982BLANK_10561913	3983982		MB	INITIAL	PbTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:12	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10561913	746688	3982870BLANK_10561913	3982870		MB	INITIAL	SO4	T	1	2021-06-04 03:53	METHOD	2021-06-04 03:53	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10561913	746688	3982871LCS_10561913	3982871		LCS	INITIAL	SO4	T	1	2021-06-04 03:54	METHOD	2021-06-04 03:54	ASTM D516-90-02	0	20	18.8	1.2	2.5	mg/L	94	0	80	120	0
PACE_MPLS	10561913	746688	3982872LCSD_10561913	3982872	3982871LCS_10561913	LCSD	INITIAL	SO4	T	1	2021-06-04 03:54	METHOD	2021-06-04 03:54	ASTM D516-90-02	0	20	18.9	1.2	2.5	mg/L	94	0	80	120	20
PACE_MPLS	10561913	744609	3971025BLANK_10561913	3971025		MB	INITIAL	TSS	T	1	2021-05-26 09:47	METHOD	2021-05-26 09:47	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10561913	744609	3971026LCS_10561913	3971026		LCS	INITIAL	TSS	T	1	2021-05-26 09:47	METHOD	2021-05-26 09:47	SM 2540D	0	100	94.8	10	20	mg/L	95	0	80	120	0
PACE_MPLS	10561913	744948	3972894BLANK_10561913	3972894		MB	INITIAL	TSS	T	1	2021-05-27 06:05	METHOD	2021-05-27 06:05	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10561913	744948	3972895LCS_10561913	3972895		LCS	INITIAL	TSS	T	1	2021-05-27 06:05	METHOD	2021-05-27 06:05	SM 2540D	0	100	116	10	20	mg/L	116	0	80	120	0
PACE_MPLS	10561913	744949	3972898BLANK_10561913	3972898		MB	INITIAL	TSS	T	1	2021-05-27 06:34	METHOD	2021-05-27 06:34	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10561913	744949	3972899LCS_10561913	3972899		LCS	INITIAL	TSS	T	1	2021-05-27 06:34	METHOD	2021-05-27 06:34	SM 2540D	0	100	93	10	20	mg/L	93	0	80	120	0
PACE_MPLS	10561913	744949	SWSD0015-052021DUP	3972900	SWSD0015-052021	LR	INITIAL	TSS	T	1	2021-05-27 06:34	METHOD	2021-05-27 06:34	SM 2540D	47.8	0	44.9	5	10	mg/L	0	6	0	0	5
PACE_MPLS	10561913	745259	3975031BLANK_10561913	3975031		MB	INITIAL	TSS	T	1	2021-05-29 11:23	METHOD	2021-05-29 11:23	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10561913	745259	3975032LCS_10561913	3975032		LCS	INITIAL	TSS	T	1	2021-05-29 11:23	METHOD	2021-05-29 11:23	SM 2540D	0	100	109	10	20	mg/L	109	0	80	120	0
PACE_MPLS	10561913	748326	3991735BLANK_10561913	3991735		MB	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:47	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10561913	748326	SWSD0006-052021MSD	3991738	SWSD0006-052021	MSD	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:11	EPA 200.8	0.08	0.1	0.18	0.0023	0.005	mg/L	95	2	70	130	20
PACE_MPLS	10561913	748326	3991736LCS_10561913	3991736		LCS	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:54	EPA 200.8	0	0.1	0.097	0.0023	0.005	mg/L	97	0	85	115	0
PACE_MPLS	10561913	748326	SWSD0006-052021MS	3991737	SWSD0006-052021	MS	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:07	EPA 200.8	0.08	0.1	0.18	0.0023	0.005	mg/L	99	0	70	130	0
PACE_MPLS	10561913	748326	SWSD0016-051921MS	3994445	SWSD0016-051921	MS	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 02:52	EPA 200.8	0.011	0.1	0.11	0.0023	0.005	mg/L	98	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0016-051921MS	3983986	SWSD0016-051921	MS	INITIAL	ZnTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 07:06	EPA 200.8	0.0448	0.1	0.133	0.0023	0.005	mg/L	88	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MS	3983984	SWSD0006-052021	MS	INITIAL	ZnTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:26	EPA 200.8	0.346	0.1	0.397	0.0023	0.005	mg/L	51	0	70	130	0
PACE_MPLS	10561913	746849	SWSD0006-052021MSD	3983985	SWSD0006-052021	MSD	INITIAL	ZnTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:29	EPA 200.8	0.346	0.1	0.426	0.0023	0.005	mg/L	80	7	70	130	20
PACE_MPLS	10561913	746849	3983982BLANK_10561913	3983982		MB	INITIAL	ZnTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:12	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10561913	746849	3983983LCS_10561913	3983983		LCS	INITIAL	ZnTR	T	1	2021-06-07 06:44	EPA 200.8	2021-06-08 06:15	EPA 200.8	0	0.1	0.101	0.0023	0.005	mg/L	101	0	85	115	0
PACE_MPLS	10562410	747482	3987036BLANK_10562410	3987036		MB	INITIAL	AsDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747482	3987037LCS_10562410	3987037		LCS	INITIAL	AsDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	101	0	85	115	0
PACE_MPLS	10562410	747482	SWSD0044-052221MS	3987039	SWSD0044-052221	MS	INITIAL	AsDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:43	EPA 200.8	0.0057	0.1	0.11	0.00014	0.0005	mg/L	106	0	70	130	0
PACE_MPLS	10562410	747482	SWSD0044-052221MSD	3987040	SWSD0044-052221	MSD	INITIAL	AsDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:47	EPA 200.8	0.0057	0.1	0.11	0.00014	0.0005	mg/L	107	1	70	130	20
PACE_MPLS	10562410	748595	SWSD0036-052321MSD	3993064	SWSD0036-052321	MSD	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:22	EPA 200.8	0.0047	0.1	0.1	0.00014	0.0005	mg/L	100	1	70	130	20
PACE_MPLS	10562410	748595	SWSD0023-052321MS	3993062	SWSD0023-052321	MS	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 12:10	EPA 200.8	0.0063	0.1	0.11	0.00014	0.0005	mg/L	102	0	70	130	0
PACE_MPLS	10562410	748595	SWSD0036-052321MS	3993063	SWSD0036-052321	MS	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:19	EPA 200.8	0.0047	0.1	0.1	0.00014	0.0005	mg/L	99	0	70	130	0
PACE_MPLS	10562410	748595	3993060BLANK_10562410	3993060		MB	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:56	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748595	3993061LCS_10562410	3993061		LCS	INITIAL	AsDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:59	EPA 200.8	0	0.1	0.099	0.00014	0.0005	mg/L	99	0	85	115	0
PACE_MPLS	10562410	747490	3987087BLANK_10562410	3987087		MB	INITIAL	AsTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747490	3987088LCS_10562410	3987088		LCS	INITIAL	AsTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.0957	0.00014	0.0005	mg/L	96	0	85	115	0
PACE_MPLS	10562410	747490	SWSD0044-052221MS	3987090	SWSD0044-052221	MS	INITIAL	AsTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 01:19	EPA 200.8	0.0085	0.1	0.102	0.0007	0.0025	mg/L	93	0	70	130	0
PACE_MPLS	10562410	747490	SWSD0044-052221MSD	3987091	SWSD0044-052221	MSD	INITIAL	AsTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-14 08:09	EPA 200.8	0.0085	0.1	0.105	0.0007	0.0025	mg/L	96	3	70	130	20
PACE_MPLS	10562410	748968	SWSD0023-052321MS	3995115	SWSD0023-052321	MS	INITIAL	AsTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:43	EPA 200.8	0.0222	0.1	0.121	0.00014	0.0005	mg/L	99	0	70	130	0
PACE_MPLS	10562410	748968	3995114LCS_10562410	3995114		LCS	INITIAL	AsTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:30	EPA 200.8	0	0.1	0.0999	0.00014	0.0005	mg/L	100	0	85	115	0
PACE_MPLS	10562410	748968	3995113BLANK_10562410	3995113		MB	INITIAL	AsTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:26	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748968	SWSD0036-052321MS	3995116	SWSD0036-052321	MS	INITIAL	AsTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:49	EPA 200.8	0.0065	0.1	0.109	0.00014	0.0005	mg/L	103	0	70	130	0
PACE_MPLS	10562410	748968	SWSD0036-052321MSD	3995117	SWSD0036-052321	MSD	INITIAL	AsTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:53	EPA 200.8	0.0065	0.1	0.109	0.00014	0.0005	mg/L	103	0	70	130	20
PACE_MPLS	10562410	747482	SWSD0044-052221MS	3987039	SWSD0044-052221	MS	INITIAL	CdDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:43	EPA 200.8	0.000034	0.1	0.11	0.00003	0.00008	mg/L	105	0	70	130	0
PACE_MPLS	10562410	747482	3987037LCS_10562410	3987037		LCS	INITIAL	CdDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	101	0	85	115	0
PACE_MPLS	10562410	747482	3987036BLANK_10562410	3987036		MB	INITIAL	CdDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747482	SWSD0044-052221MSD	3987040	SWSD0044-052221	MSD	INITIAL	CdDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:47	EPA 200.8	0.000034	0.1	0.11	0.00003	0.00008	mg/L	108	2	70	130	20
PACE_MPLS	10562410	748595	3993061LCS_10562410	3993061		LCS	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:59	EPA 200.8	0	0.1	0.099	0.00003	0.00008	mg/L	99	0	85	115	0
PACE_MPLS	10562410	748595	3993060BLANK_10562410	3993060		MB	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:56	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748595	SWSD0036-052321MSD	3993064	SWSD0036-052321	MSD	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:22	EPA 200.8	0	0.1	0.096	0.00003	0.00008	mg/L	96	1	70	130	20
PACE_MPLS	10562410	748595	SWSD0023-052321MS	3993062	SWSD0023-052321	MS	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 12:10	EPA 200.8	0.00032	0.1	0.1	0.00003	0.00008	mg/L	101	0	70	130	0
PACE_MPLS	10562410	748595	SWSD0036-052321MS	3993063	SWSD0036-052321	MS	INITIAL	CdDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:19	EPA 200.8	0	0.1	0.096	0.00003	0.00008	mg/L	96	0	70	130	0
PACE_MPLS	10562410	747490	3987088LCS_10562410	3987088		LCS	INITIAL	CdTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	100	0	85	115	0
PACE_MPLS	10562410	747490	3987087BLANK_10562410	3987087		MB	INITIAL	CdTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747490	SWSD0044-052221MS	3987090	SWSD0044-052221	MS	INITIAL	CdTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 01:19	EPA 200.8	0.00018	0.1	0.0965	0.00015	0.0004	mg/L	96	0	70	130	0
PACE_MPLS	10562410	747490	SWSD0044-052221MSD	3987091	SWSD0044-052221	MSD	INITIAL	CdTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-14 08:09	EPA 200.8	0.00018	0.1	0.0964	0.00015	0.0004	mg/L	96	0	70	130	20
PACE_MPLS	10562410	748968	SWSD0023-052321MS	3995115	SWSD0023-052321	MS	INITIAL	CdTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:43	EPA 200.8	0.0016	0.1	0.101	0.00003	0.00008	mg/L	100	0	70	130	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10562410	748968	3995114LCS_10562410	3995114		LCS	INITIAL	CdTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:30	EPA 200.8	0	0.1	0.0985	0.00003	0.00008	mg/L	99	0	85	115	0
PACE_MPLS	10562410	748968	3995113BLANK_10562410	3995113		MB	INITIAL	CdTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:26	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748968	SWSD0036-052321MS	3995116	SWSD0036-052321	MS	INITIAL	CdTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:49	EPA 200.8	0.000042	0.1	0.101	0.00003	0.00008	mg/L	101	0	70	130	0
PACE_MPLS	10562410	748968	SWSD0036-052321MSD	3995117	SWSD0036-052321	MSD	INITIAL	CdTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:53	EPA 200.8	0.000042	0.1	0.1	0.00003	0.00008	mg/L	100	0	70	130	20
PACE_MPLS	10562410	747482	3987036BLANK_10562410	3987036		MB	INITIAL	CuDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747482	3987037LCS_10562410	3987037		LCS	INITIAL	CuDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	103	0	85	115	0
PACE_MPLS	10562410	747482	SWSD0044-052221MS	3987039	SWSD0044-052221	MS	INITIAL	CuDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:43	EPA 200.8	0.021	0.1	0.12	0.00043	0.001	mg/L	102	0	70	130	0
PACE_MPLS	10562410	747482	SWSD0044-052221MSD	3987040	SWSD0044-052221	MSD	INITIAL	CuDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:47	EPA 200.8	0.021	0.1	0.13	0.00043	0.001	mg/L	106	3	70	130	20
PACE_MPLS	10562410	748595	3993060BLANK_10562410	3993060		MB	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:56	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748595	3993061LCS_10562410	3993061		LCS	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:59	EPA 200.8	0	0.1	0.098	0.00043	0.001	mg/L	98	0	85	115	0
PACE_MPLS	10562410	748595	SWSD0036-052321MSD	3993064	SWSD0036-052321	MSD	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:22	EPA 200.8	0.0028	0.1	0.096	0.00043	0.001	mg/L	93	2	70	130	20
PACE_MPLS	10562410	748595	SWSD0023-052321MS	3993062	SWSD0023-052321	MS	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 12:10	EPA 200.8	0.032	0.1	0.13	0.00043	0.001	mg/L	98	0	70	130	0
PACE_MPLS	10562410	748595	SWSD0036-052321MS	3993063	SWSD0036-052321	MS	INITIAL	CuDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:19	EPA 200.8	0.0028	0.1	0.094	0.00043	0.001	mg/L	91	0	70	130	0
PACE_MPLS	10562410	747490	3987087BLANK_10562410	3987087		MB	INITIAL	CuTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747490	3987088LCS_10562410	3987088		LCS	INITIAL	CuTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.106	0.00043	0.001	mg/L	106	0	85	115	0
PACE_MPLS	10562410	747490	SWSD0044-052221MS	3987090	SWSD0044-052221	MS	INITIAL	CuTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 01:19	EPA 200.8	0.089	0.1	0.192	0.0021	0.005	mg/L	103	0	70	130	0
PACE_MPLS	10562410	747490	SWSD0044-052221MSD	3987091	SWSD0044-052221	MSD	INITIAL	CuTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-14 08:09	EPA 200.8	0.089	0.1	0.194	0.0021	0.005	mg/L	105	1	70	130	20
PACE_MPLS	10562410	748968	SWSD0023-052321MS	3995115	SWSD0023-052321	MS	INITIAL	CuTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:43	EPA 200.8	0.176	0.1	0.279	0.00043	0.001	mg/L	103	0	70	130	0
PACE_MPLS	10562410	748968	3995113BLANK_10562410	3995113		MB	INITIAL	CuTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:26	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748968	3995114LCS_10562410	3995114		LCS	INITIAL	CuTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:30	EPA 200.8	0	0.1	0.101	0.00043	0.001	mg/L	101	0	85	115	0
PACE_MPLS	10562410	748968	SWSD0036-052321MS	3995116	SWSD0036-052321	MS	INITIAL	CuTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:49	EPA 200.8	0.0046	0.1	0.105	0.00043	0.001	mg/L	100	0	70	130	0
PACE_MPLS	10562410	748968	SWSD0036-052321MSD	3995117	SWSD0036-052321	MSD	INITIAL	CuTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:53	EPA 200.8	0.0046	0.1	0.106	0.00043	0.001	mg/L	101	1	70	130	20
PACE_MPLS	10562410	747482	3987036BLANK_10562410	3987036		MB	INITIAL	FeDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.014	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747482	3987037LCS_10562410	3987037		LCS	INITIAL	FeDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	2	1.9	0.012	0.05	mg/L	97	0	85	115	0
PACE_MPLS	10562410	747482	SWSD0044-052221MS	3987039	SWSD0044-052221	MS	INITIAL	FeDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:43	EPA 200.8	0.087	2	2.1	0.012	0.05	mg/L	99	0	70	130	0
PACE_MPLS	10562410	747482	SWSD0044-052221MSD	3987040	SWSD0044-052221	MSD	INITIAL	FeDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:47	EPA 200.8	0.087	2	2.1	0.012	0.05	mg/L	102	2	70	130	20
PACE_MPLS	10562410	748595	3993060BLANK_10562410	3993060		MB	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:56	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748595	3993061LCS_10562410	3993061		LCS	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:59	EPA 200.8	0	2	2	0.012	0.05	mg/L	100	0	85	115	0
PACE_MPLS	10562410	748595	SWSD0036-052321MS	3993063	SWSD0036-052321	MS	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:19	EPA 200.8	0.037	2	2	0.012	0.05	mg/L	98	0	70	130	0
PACE_MPLS	10562410	748595	SWSD0036-052321MSD	3993064	SWSD0036-052321	MSD	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:22	EPA 200.8	0.037	2	2.1	0.012	0.05	mg/L	101	3	70	130	20
PACE_MPLS	10562410	748595	SWSD0023-052321MS	3993062	SWSD0023-052321	MS	INITIAL	FeDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 12:10	EPA 200.8	1.7	2	3.8	0.012	0.05	mg/L	104	0	70	130	0
PACE_MPLS	10562410	747490	3987087BLANK_10562410	3987087		MB	INITIAL	FeTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747490	3987088LCS_10562410	3987088		LCS	INITIAL	FeTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	2	2.16	0.012	0.05	mg/L	108	0	85	115	0
PACE_MPLS	10562410	747490	SWSD0044-052221MS	3987090	SWSD0044-052221	MS	INITIAL	FeTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 01:19	EPA 200.8	2.79	2	4.98	0.06	0.25	mg/L	110	0	70	130	0
PACE_MPLS	10562410	747490	SWSD0044-052221MSD	3987091	SWSD0044-052221	MSD	INITIAL	FeTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-14 08:09	EPA 200.8	2.79	2	5.05	0.06	0.25	mg/L	113	1	70	130	20
PACE_MPLS	10562410	748968	3995113BLANK_10562410	3995113		MB	INITIAL	FeTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:26	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748968	SWSD0023-052321MS	3995115	SWSD0023-052321	MS	INITIAL	FeTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:43	EPA 200.8	11.2	2	13.4	0.012	0.05	mg/L	110	0	70	130	0
PACE_MPLS	10562410	748968	3995114LCS_10562410	3995114		LCS	INITIAL	FeTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:30	EPA 200.8	0	2	2.06	0.012	0.05	mg/L	103	0	85	115	0
PACE_MPLS	10562410	748968	SWSD0036-052321MSD	3995117	SWSD0036-052321	MSD	INITIAL	FeTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:53	EPA 200.8	0.394	2	2.48	0.012	0.05	mg/L	105	1	70	130	20
PACE_MPLS	10562410	748968	SWSD0036-052321MS	3995116	SWSD0036-052321	MS	INITIAL	FeTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:49	EPA 200.8	0.394	2	2.5	0.012	0.05	mg/L	105	0	70	130	0
PACE_MPLS	10562410	747484	SWSD0036-052321MS	3987060	SWSD0036-052321	MS	INITIAL	HgDis	D	1	2021-06-08 06:32	EPA 245.1	2021-06-10 10:58	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10562410	747484	SWSD0036-052321MSD	3987061	SWSD0036-052321	MSD	INITIAL	HgDis	D	1	2021-06-08 06:32	EPA 245.1	2021-06-10 11:00	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	1	70	130	20
PACE_MPLS	10562410	747484	SWSD0023-052321MS	3987059	SWSD0023-052321	MS	INITIAL	HgDis	D	1	2021-06-08 06:32	EPA 245.1	2021-06-10 10:32	EPA 245.1	0.00004	0.005	0.0054	0.000045	0.0002	mg/L	108	0	70	130	0
PACE_MPLS	10562410	747484	3987057BLANK_10562410	3987057		MB	INITIAL	HgDis	D	1	2021-06-08 06:32	EPA 245.1	2021-06-10 10:26	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747484	3987058LCS_10562410	3987058		LCS	INITIAL	HgDis	D	1	2021-06-08 06:32	EPA 245.1	2021-06-10 10:28	EPA 245.1	0	0.005	0.0056	0.000045	0.0002	mg/L	111	0	85	115	0
PACE_MPLS	10562410	747486	3987070BLANK_10562410	3987070		MB	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 12:35	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747486	3987071LCS_10562410	3987071		LCS	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 12:36	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	99	0	85	115	0
PACE_MPLS	10562410	747486	SWSD0044-052221MSD	3987074	SWSD0044-052221	MSD	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 12:55	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	101	2	70	130	20
PACE_MPLS	10562410	747486	SWSD0044-052221MS	3987073	SWSD0044-052221	MS	INITIAL	HgDis	D	1	2021-06-09 05:42	EPA 245.1	2021-06-10 12:53	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	70	130	0
PACE_MPLS	10562410	747491	3987092BLANK_10562410	3987092		MB	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 02:44	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747491	3987093LCS_10562410	3987093		LCS	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 02:45	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	105	0	85	115	0
PACE_MPLS	10562410	747491	SWSD0036-052321MSD	3987096	SWSD0036-052321	MSD	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 03:16	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	2	70	130	20
PACE_MPLS	10562410	747491	SWSD0041-052321MS	3987906	SWSD0041-052321	MS	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 03:25	EPA 245.1	0.00011	0.005	0.0052	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10562410	747491	SWSD0036-052321MS	3987095	SWSD0036-052321	MS	INITIAL	HgTR	T	1	2021-06-08 07:34	EPA 245.1	2021-06-10 03:15	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10562410	747492	3987098BLANK_10562410	3987098		MB	INITIAL	HgTR	T	1	2021-06-08 06:32	EPA 245.1	2021-06-10 11:11	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747492	3987099LCS_10562410	3987099		LCS	INITIAL	HgTR	T	1	2021-06-08 06:32	EPA 245.1	2021-06-10 11:13	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	107	0	85	115	0
PACE_MPLS	10562410	747492	SWSD0044-052221MS	3987101	SWSD0044-052221	MS	INITIAL	HgTR	T	1	2021-06-08 06:32	EPA 245.1	2021-06-10 11:29	EPA 245.1	0.00002	0.005	0.0053	0.000045	0.0002	mg/L	105	0	70	130	0
PACE_MPLS	10562410	747492	SWSD0044-052221MSD	3987102	SWSD0044-052221	MSD	INITIAL	HgTR	T	1	2021-06-08 06:32	EPA 245.1	2021-06-10 11:30	EPA 245.1	0.00002	0.005	0.0052	0.000045	0.0002	mg/L	103	2	70	130	20
PACE_MPLS	10562410	747482	SWSD0044-052221MS	3987039	SWSD0044-052221	MS	INITIAL	PbDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:43	EPA 200.8	0.00056	0.1	0.11	0.000043	0.0001	mg/L	107	0	70	130	0
PACE_MPLS	10562410	747482	SWSD0044-052221MSD	3987040	SWSD0044-052221	MSD	INITIAL	PbDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:47	EPA 200.8	0.00056	0.1	0.11	0.000043	0.0001	mg/L	108	1	70	130	20

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10562410	747482	3987036BLANK_10562410	3987036		MB	INITIAL	PbDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747482	3987037LCS_10562410	3987037		LCS	INITIAL	PbDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	104	0	85	115	0
PACE_MPLS	10562410	748595	SWSD0023-052321MS	3993062	SWSD0023-052321	MS	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 12:10	EPA 200.8	0.027	0.1	0.13	0.000043	0.0001	mg/L	102	0	70	130	0
PACE_MPLS	10562410	748595	SWSD0036-052321MS	3993063	SWSD0036-052321	MS	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:19	EPA 200.8	0.000072	0.1	0.1	0.000043	0.0001	mg/L	102	0	70	130	0
PACE_MPLS	10562410	748595	SWSD0036-052321MSD	3993064	SWSD0036-052321	MSD	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:22	EPA 200.8	0.000072	0.1	0.1	0.000043	0.0001	mg/L	103	1	70	130	20
PACE_MPLS	10562410	748595	3993061LCS_10562410	3993061		LCS	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:59	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	100	0	85	115	0
PACE_MPLS	10562410	748595	3993060BLANK_10562410	3993060		MB	INITIAL	PbDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:56	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747490	3987087BLANK_10562410	3987087		MB	INITIAL	PbTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747490	3987088LCS_10562410	3987088		LCS	INITIAL	PbTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.106	0.000043	0.0001	mg/L	106	0	85	115	0
PACE_MPLS	10562410	747490	SWSD0044-052221MS	3987090	SWSD0044-052221	MS	INITIAL	PbTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 01:19	EPA 200.8	0.0163	0.1	0.12	0.00022	0.0005	mg/L	104	0	70	130	0
PACE_MPLS	10562410	747490	SWSD0044-052221MSD	3987091	SWSD0044-052221	MSD	INITIAL	PbTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-14 08:09	EPA 200.8	0.0163	0.1	0.117	0.00022	0.0005	mg/L	101	2	70	130	20
PACE_MPLS	10562410	748968	3995113BLANK_10562410	3995113		MB	INITIAL	PbTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:26	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748968	SWSD0036-052321MSD	3995117	SWSD0036-052321	MSD	INITIAL	PbTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:53	EPA 200.8	0.0011	0.1	0.101	0.000043	0.0001	mg/L	100	0	70	130	20
PACE_MPLS	10562410	748968	SWSD0036-052321MS	3995116	SWSD0036-052321	MS	INITIAL	PbTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:49	EPA 200.8	0.0011	0.1	0.101	0.000043	0.0001	mg/L	100	0	70	130	0
PACE_MPLS	10562410	748968	SWSD0023-052321MS	3995115	SWSD0023-052321	MS	INITIAL	PbTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:43	EPA 200.8	0.191	0.1	0.286	0.000043	0.0001	mg/L	96	0	70	130	0
PACE_MPLS	10562410	748968	3995114LCS_10562410	3995114		LCS	INITIAL	PbTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:30	EPA 200.8	0	0.1	0.1	0.000043	0.0001	mg/L	100	0	85	115	0
PACE_MPLS	10562410	748856	SWSD0036-052321MS	3994716	SWSD0036-052321	MS	INITIAL	SO4	T	5	2021-06-14 11:29	METHOD	2021-06-14 11:29	ASTM D516-90-02	51	20	68	6	12.5	mg/L	85	0	80	120	0
PACE_MPLS	10562410	748856	SWSD0036-052321MSD	3994717	SWSD0036-052321	MSD	INITIAL	SO4	T	5	2021-06-14 11:30	METHOD	2021-06-14 11:30	ASTM D516-90-02	51	20	67.9	6	12.5	mg/L	84	0	80	120	30
PACE_MPLS	10562410	748856	SWSD0037-052321MS	3994718	SWSD0037-052321	MS	INITIAL	SO4	T	5	2021-06-14 11:40	METHOD	2021-06-14 11:40	ASTM D516-90-02	51.6	20	73.9	6	12.5	mg/L	111	0	80	120	0
PACE_MPLS	10562410	748856	SWSD0037-052321MSD	3994719	SWSD0037-052321	MSD	INITIAL	SO4	T	5	2021-06-14 11:41	METHOD	2021-06-14 11:41	ASTM D516-90-02	51.6	20	67.5	6	12.5	mg/L	79	9	80	120	30
PACE_MPLS	10562410	748856	3994713BLANK_10562410	3994713		MB	INITIAL	SO4	T	1	2021-06-14 10:36	METHOD	2021-06-14 10:36	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748856	3994714LCS_10562410	3994714		LCS	INITIAL	SO4	T	1	2021-06-14 10:36	METHOD	2021-06-14 10:36	ASTM D516-90-02	0	20	20.2	1.2	2.5	mg/L	101	0	80	120	0
PACE_MPLS	10562410	748856	3994715LCSD_10562410	3994715	3994714LCS_10562410	LCSD	INITIAL	SO4	T	1	2021-06-14 10:37	METHOD	2021-06-14 10:37	ASTM D516-90-02	0	20	19.1	1.2	2.5	mg/L	95	6	80	120	20
PACE_MPLS	10562410	748857	3994720BLANK_10562410	3994720		MB	INITIAL	SO4	T	1	2021-06-14 11:55	METHOD	2021-06-14 11:55	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748857	3994721LCS_10562410	3994721		LCS	INITIAL	SO4	T	1	2021-06-14 11:55	METHOD	2021-06-14 11:55	ASTM D516-90-02	0	20	19	1.2	2.5	mg/L	95	0	80	120	0
PACE_MPLS	10562410	748857	3994722LCSD_10562410	3994722	3994721LCS_10562410	LCSD	INITIAL	SO4	T	1	2021-06-14 11:56	METHOD	2021-06-14 11:56	ASTM D516-90-02	0	20	18.9	1.2	2.5	mg/L	94	1	80	120	20
PACE_MPLS	10562410	748857	SWSD0044-052221MS	3994723	SWSD0044-052221	MS	INITIAL	SO4	T	5	2021-06-14 12:19	METHOD	2021-06-14 12:19	ASTM D516-90-02	25.4	20	46.2	6	12.5	mg/L	104	0	80	120	0
PACE_MPLS	10562410	748857	SWSD0044-052221MSD	3994724	SWSD0044-052221	MSD	INITIAL	SO4	T	5	2021-06-14 12:20	METHOD	2021-06-14 12:20	ASTM D516-90-02	25.4	20	46.5	6	12.5	mg/L	106	1	80	120	30
PACE_MPLS	10562410	745256	3975017BLANK_10562410	3975017		MB	INITIAL	TSS	T	1	2021-05-28 08:49	METHOD	2021-05-28 08:49	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10562410	745256	3975018LCS_10562410	3975018		LCS	INITIAL	TSS	T	1	2021-05-28 08:49	METHOD	2021-05-28 08:49	SM 2540D	0	100	105	10	20	mg/L	105	0	80	120	0
PACE_MPLS	10562410	745257	3975022BLANK_10562410	3975022		MB	INITIAL	TSS	T	1	2021-05-28 09:28	METHOD	2021-05-28 09:28	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10562410	745257	3975023LCS_10562410	3975023		LCS	INITIAL	TSS	T	1	2021-05-28 09:28	METHOD	2021-05-28 09:28	SM 2540D	0	100	103	10	20	mg/L	103	0	80	120	0
PACE_MPLS	10562410	745257	SWSD0044-052221DUP	3975024	SWSD0044-052221	LR	INITIAL	TSS	T	1	2021-05-28 09:28	METHOD	2021-05-28 09:28	SM 2540D	28.3	0	25.2	5	10	mg/L	0	12	0	0	5
PACE_MPLS	10562410	745257	SWSD0036-052321DUP	3975025	SWSD0036-052321	LR	INITIAL	TSS	T	1	2021-05-28 09:28	METHOD	2021-05-28 09:28	SM 2540D	4	0	2	5	10	mg/L	0	0	0	0	5
PACE_MPLS	10562410	745258	SWSD0037-052321DUP	3975029	SWSD0037-052321	LR	INITIAL	TSS	T	1	2021-05-29 10:58	METHOD	2021-05-29 10:58	SM 2540D	6.5	0	5	5	10	mg/L	0	0	0	0	5
PACE_MPLS	10562410	745258	SWSD0038-052321DUP	3975030	SWSD0038-052321	LR	INITIAL	TSS	T	1	2021-05-29 10:58	METHOD	2021-05-29 10:58	SM 2540D	4	0	6.2	5	10	mg/L	0	0	0	0	5
PACE_MPLS	10562410	745258	3975027BLANK_10562410	3975027		MB	INITIAL	TSS	T	1	2021-05-29 10:58	METHOD	2021-05-29 10:58	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10562410	745258	3975028LCS_10562410	3975028		LCS	INITIAL	TSS	T	1	2021-05-29 10:58	METHOD	2021-05-29 10:58	SM 2540D	0	100	110	10	20	mg/L	110	0	80	120	0
PACE_MPLS	10562410	745259	3975031BLANK_10562410	3975031		MB	INITIAL	TSS	T	1	2021-05-29 11:23	METHOD	2021-05-29 11:23	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10562410	745259	3975032LCS_10562410	3975032		LCS	INITIAL	TSS	T	1	2021-05-29 11:23	METHOD	2021-05-29 11:23	SM 2540D	0	100	109	10	20	mg/L	109	0	80	120	0
PACE_MPLS	10562410	745259	SWSD0040-052321DUP	3975033	SWSD0040-052321	LR	INITIAL	TSS	T	1	2021-05-29 11:23	METHOD	2021-05-29 11:23	SM 2540D	256	0	252	10	20	mg/L	0	2	0	0	5
PACE_MPLS	10562410	745260	3975035BLANK_10562410	3975035		MB	INITIAL	TSS	T	1	2021-05-29 11:36	METHOD	2021-05-29 11:36	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10562410	745260	3975036LCS_10562410	3975036		LCS	INITIAL	TSS	T	1	2021-05-29 11:36	METHOD	2021-05-29 11:36	SM 2540D	0	100	116	10	20	mg/L	116	0	80	120	0
PACE_MPLS	10562410	745915	3978874BLANK_10562410	3978874		MB	INITIAL	TSS	T	1	2021-06-02 10:10	METHOD	2021-06-02 10:10	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10562410	745915	3978875LCS_10562410	3978875		LCS	INITIAL	TSS	T	1	2021-06-02 10:10	METHOD	2021-06-02 10:10	SM 2540D	0	100	106	10	20	mg/L	106	0	80	120	0
PACE_MPLS	10562410	745915	SWSD0039-052621DUP	3978876	SWSD0039-052621	LR	INITIAL	TSS	T	1	2021-06-02 10:10	METHOD	2021-06-02 10:10	SM 2540D	0.7	0	8.4	5	10	mg/L	0	0	0	0	5
PACE_MPLS	10562410	747482	SWSD0044-052221MS	3987039	SWSD0044-052221	MS	INITIAL	ZnDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:43	EPA 200.8	0.022	0.1	0.11	0.0023	0.005	mg/L	92	0	70	130	0
PACE_MPLS	10562410	747482	3987037LCS_10562410	3987037		LCS	INITIAL	ZnDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:50	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	101	0	85	115	0
PACE_MPLS	10562410	747482	3987036BLANK_10562410	3987036		MB	INITIAL	ZnDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 10:46	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747482	SWSD0044-052221MSD	3987040	SWSD0044-052221	MSD	INITIAL	ZnDis	D	1	2021-06-09 02:02	EPA 200.8	2021-06-11 11:47	EPA 200.8	0.022	0.1	0.12	0.0023	0.005	mg/L	94	2	70	130	20
PACE_MPLS	10562410	748595	3993061LCS_10562410	3993061		LCS	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:59	EPA 200.8	0	0.1	0.098	0.0023	0.005	mg/L	98	0	85	115	0
PACE_MPLS	10562410	748595	3993060BLANK_10562410	3993060		MB	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-14 11:56	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748595	SWSD0036-052321MSD	3993064	SWSD0036-052321	MSD	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:22	EPA 200.8	0.039	0.1	0.14	0.0023	0.005	mg/L	98	2	70	130	20
PACE_MPLS	10562410	748595	SWSD0036-052321MS	3993063	SWSD0036-052321	MS	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 01:19	EPA 200.8	0.039	0.1	0.13	0.0023	0.005	mg/L	95	0	70	130	0
PACE_MPLS	10562410	748595	SWSD0023-052321MS	3993062	SWSD0023-052321	MS	INITIAL	ZnDis	D	1	2021-06-13 07:53	EPA 200.8	2021-06-15 12:10	EPA 200.8	0.12	0.1	0.22	0.0023	0.005	mg/L	100	0	70	130	0
PACE_MPLS	10562410	747490	3987088LCS_10562410	3987088		LCS	INITIAL	ZnTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:09	EPA 200.8	0	0.1	0.0956	0.0023	0.005	mg/L	96	0	85	115	0
PACE_MPLS	10562410	747490	3987087BLANK_10562410	3987087		MB	INITIAL	ZnTR	T	1	2021-06-09 02:02	EPA 200.8	2021-06-11 12:06	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10562410	747490	SWSD0044-052221MS	3987090	SWSD0044-052221	MS	INITIAL	ZnTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-11 01:19	EPA 200.8	0.0775	0.1	0.172	0.0114	0.025	mg/L	95	0	70	130	0
PACE_MPLS	10562410	747490	SWSD0044-052221MSD	3987091	SWSD0044-052221	MSD	INITIAL	ZnTR	T	5	2021-06-09 02:02	EPA 200.8	2021-06-14 08:09	EPA 200.8	0.0775	0.1	0.18	0.0114	0.025	mg/L	102	4	70	130	20
PACE_MPLS	10562410	748968	3995114LCS_10562410	3995114		LCS	INITIAL	ZnTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:30	EPA 200.8	0	0.1	0.0988	0.0023	0.005	mg/L	99	0	85	115	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10562410	748968	3995113BLANK_10562410	3995113		MB	INITIAL	ZnTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:26	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10562410	748968	SWSD0023-052321MS	3995115	SWSD0023-052321	MS	INITIAL	ZnTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 02:43	EPA 200.8	0.65	0.1	0.734	0.0023	0.005	mg/L	84	0	70	130	0
PACE_MPLS	10562410	748968	SWSD0036-052321MS	3995116	SWSD0036-052321	MS	INITIAL	ZnTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:49	EPA 200.8	0.0681	0.1	0.168	0.0023	0.005	mg/L	99	0	70	130	0
PACE_MPLS	10562410	748968	SWSD0036-052321MSD	3995117	SWSD0036-052321	MSD	INITIAL	ZnTR	T	1	2021-06-15 04:33	EPA 200.8	2021-06-16 03:53	EPA 200.8	0.0681	0.1	0.167	0.0023	0.005	mg/L	99	0	70	130	20
PACE_MPLS	10563136	748722	3994286BLANK_10563136	3994286		MB	INITIAL	AsDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:22	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748722	3994287LCS_10563136	3994287		LCS	INITIAL	AsDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:26	EPA 200.8	0	0.1	0.098	0.00014	0.0005	mg/L	98	0	85	115	0
PACE_MPLS	10563136	748722	SWSD0062-052621MS	3994288	SWSD0062-052621	MS	INITIAL	AsDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:20	EPA 200.8	0.004	0.1	0.11	0.00014	0.0005	mg/L	102	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0062-052621MSD	3994289	SWSD0062-052621	MSD	INITIAL	AsDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:24	EPA 200.8	0.004	0.1	0.1	0.00014	0.0005	mg/L	100	2	70	130	20
PACE_MPLS	10563136	748722	SWSD0069-060121MS	3994290	SWSD0069-060121	MS	INITIAL	AsDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 02:00	EPA 200.8	0	0.1	0.099	0.00014	0.0005	mg/L	99	0	70	130	0
PACE_MPLS	10563136	748724	3994296BLANK_10563136	3994296		MB	INITIAL	AsDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:25	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994297LCS_10563136	3994297		LCS	INITIAL	AsDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:29	EPA 200.8	0	0.1	0.1	0.00014	0.0005	mg/L	103	0	85	115	0
PACE_MPLS	10563136	748724	SWSD0070-052621MS	3994300	SWSD0070-052621	MS	INITIAL	AsDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:55	EPA 200.8	0.0065	0.1	0.11	0.0007	0.0025	mg/L	104	0	70	130	0
PACE_MPLS	10563136	748724	SWSD0070-052621MSD	3994634	SWSD0070-052621	MSD	INITIAL	AsDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:58	EPA 200.8	0.0065	0.1	0.11	0.0007	0.0025	mg/L	103	1	70	130	20
PACE_MPLS	10563136	748730	SWSD0069-060121MS	3994329	SWSD0069-060121	MS	INITIAL	AsTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 02:30	EPA 200.8	0	0.1	0.095	0.00014	0.0005	mg/L	95	0	70	130	0
PACE_MPLS	10563136	748730	3994325BLANK_10563136	3994325		MB	INITIAL	AsTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:47	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748730	3994326LCS_10563136	3994326		LCS	INITIAL	AsTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:50	EPA 200.8	0	0.1	0.0984	0.00014	0.0005	mg/L	98	0	85	115	0
PACE_MPLS	10563136	748730	SWSD0062-052621MSD	3994328	SWSD0062-052621	MSD	INITIAL	AsTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:50	EPA 200.8	0.0113	0.1	0.11	0.00014	0.0005	mg/L	99	0	70	130	20
PACE_MPLS	10563136	748730	SWSD0062-052621MS	3994327	SWSD0062-052621	MS	INITIAL	AsTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:47	EPA 200.8	0.0113	0.1	0.11	0.00014	0.0005	mg/L	98	0	70	130	0
PACE_MPLS	10563136	748732	3994336BLANK_10563136	3994336		MB	INITIAL	AsTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:36	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748732	3994337LCS_10563136	3994337		LCS	INITIAL	AsTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:40	EPA 200.8	0	0.1	0.0986	0.00014	0.0005	mg/L	99	0	85	115	0
PACE_MPLS	10563136	748732	SWSD0070-052621MS	3994338	SWSD0070-052621	MS	INITIAL	AsTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:55	EPA 200.8	0.0085	0.1	0.109	0.00014	0.0005	mg/L	100	0	70	130	0
PACE_MPLS	10563136	748732	SWSD0070-052621MSD	3994339	SWSD0070-052621	MSD	INITIAL	AsTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:58	EPA 200.8	0.0085	0.1	0.11	0.00014	0.0005	mg/L	101	1	70	130	20
PACE_MPLS	10563136	748732	SWSD0083-052621MS	3994340	SWSD0083-052621	MS	INITIAL	AsTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 02:04	EPA 200.8	0.0054	0.1	0.106	0.00014	0.0005	mg/L	101	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0062-052621MS	3994288	SWSD0062-052621	MS	INITIAL	CdDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:20	EPA 200.8	0.000044	0.1	0.1	0.00003	0.00008	mg/L	100	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0062-052621MSD	3994289	SWSD0062-052621	MSD	INITIAL	CdDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:24	EPA 200.8	0.000044	0.1	0.1	0.00003	0.00008	mg/L	101	1	70	130	20
PACE_MPLS	10563136	748722	SWSD0069-060121MS	3994290	SWSD0069-060121	MS	INITIAL	CdDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 02:00	EPA 200.8	0	0.1	0.098	0.00003	0.00008	mg/L	98	0	70	130	0
PACE_MPLS	10563136	748722	3994287LCS_10563136	3994287		LCS	INITIAL	CdDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:26	EPA 200.8	0	0.1	0.097	0.00003	0.00008	mg/L	97	0	85	115	0
PACE_MPLS	10563136	748722	3994286BLANK_10563136	3994286		MB	INITIAL	CdDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:22	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994296BLANK_10563136	3994296		MB	INITIAL	CdDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:25	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994297LCS_10563136	3994297		LCS	INITIAL	CdDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:29	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	101	0	85	115	0
PACE_MPLS	10563136	748724	SWSD0070-052621MSD	3994634	SWSD0070-052621	MSD	INITIAL	CdDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:58	EPA 200.8	0.00013	0.1	0.1	0.00015	0.0004	mg/L	100	0	70	130	20
PACE_MPLS	10563136	748724	SWSD0070-052621MS	3994300	SWSD0070-052621	MS	INITIAL	CdDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:55	EPA 200.8	0.00013	0.1	0.1	0.00015	0.0004	mg/L	100	0	70	130	0
PACE_MPLS	10563136	748730	SWSD0069-060121MS	3994329	SWSD0069-060121	MS	INITIAL	CdTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 02:30	EPA 200.8	0.000002	0.1	0.0944	0.00003	0.00008	mg/L	94	0	70	130	0
PACE_MPLS	10563136	748730	3994325BLANK_10563136	3994325		MB	INITIAL	CdTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:47	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748730	SWSD0062-052621MSD	3994328	SWSD0062-052621	MSD	INITIAL	CdTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:50	EPA 200.8	0.00043	0.1	0.0986	0.00003	0.00008	mg/L	98	1	70	130	20
PACE_MPLS	10563136	748730	SWSD0062-052621MS	3994327	SWSD0062-052621	MS	INITIAL	CdTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:47	EPA 200.8	0.00043	0.1	0.0978	0.00003	0.00008	mg/L	97	0	70	130	0
PACE_MPLS	10563136	748730	3994326LCS_10563136	3994326		LCS	INITIAL	CdTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:50	EPA 200.8	0	0.1	0.0968	0.00003	0.00008	mg/L	97	0	85	115	0
PACE_MPLS	10563136	748732	3994336BLANK_10563136	3994336		MB	INITIAL	CdTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:36	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748732	3994337LCS_10563136	3994337		LCS	INITIAL	CdTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:40	EPA 200.8	0	0.1	0.0979	0.00003	0.00008	mg/L	98	0	85	115	0
PACE_MPLS	10563136	748732	SWSD0070-052621MS	3994338	SWSD0070-052621	MS	INITIAL	CdTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:55	EPA 200.8	0.0003	0.1	0.101	0.00003	0.00008	mg/L	100	0	70	130	0
PACE_MPLS	10563136	748732	SWSD0070-052621MSD	3994339	SWSD0070-052621	MSD	INITIAL	CdTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:58	EPA 200.8	0.0003	0.1	0.0996	0.00003	0.00008	mg/L	99	1	70	130	20
PACE_MPLS	10563136	748732	SWSD0083-052621MS	3994340	SWSD0083-052621	MS	INITIAL	CdTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 02:04	EPA 200.8	0.00088	0.1	0.1	0.00003	0.00008	mg/L	99	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0069-060121MS	3994290	SWSD0069-060121	MS	INITIAL	CuDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 02:00	EPA 200.8	0.0017	0.1	0.1	0.00043	0.001	mg/L	99	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0062-052621MSD	3994289	SWSD0062-052621	MSD	INITIAL	CuDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:24	EPA 200.8	0.016	0.1	0.12	0.00043	0.001	mg/L	100	3	70	130	20
PACE_MPLS	10563136	748722	SWSD0062-052621MS	3994288	SWSD0062-052621	MS	INITIAL	CuDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:20	EPA 200.8	0.016	0.1	0.12	0.00043	0.001	mg/L	104	0	70	130	0
PACE_MPLS	10563136	748722	3994287LCS_10563136	3994287		LCS	INITIAL	CuDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:26	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	101	0	85	115	0
PACE_MPLS	10563136	748722	3994286BLANK_10563136	3994286		MB	INITIAL	CuDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:22	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994296BLANK_10563136	3994296		MB	INITIAL	CuDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:25	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994297LCS_10563136	3994297		LCS	INITIAL	CuDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:29	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	100	0	85	115	0
PACE_MPLS	10563136	748724	SWSD0070-052621MS	3994300	SWSD0070-052621	MS	INITIAL	CuDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:55	EPA 200.8	0.022	0.1	0.12	0.0021	0.005	mg/L	102	0	70	130	0
PACE_MPLS	10563136	748724	SWSD0070-052621MSD	3994634	SWSD0070-052621	MSD	INITIAL	CuDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:58	EPA 200.8	0.022	0.1	0.13	0.0021	0.005	mg/L	103	1	70	130	20
PACE_MPLS	10563136	748730	SWSD0069-060121MS	3994329	SWSD0069-060121	MS	INITIAL	CuTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 02:30	EPA 200.8	0.0002	0.1	0.0927	0.00043	0.001	mg/L	93	0	70	130	0
PACE_MPLS	10563136	748730	3994325BLANK_10563136	3994325		MB	INITIAL	CuTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:47	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748730	3994326LCS_10563136	3994326		LCS	INITIAL	CuTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:50	EPA 200.8	0	0.1	0.0948	0.00043	0.001	mg/L	95	0	85	115	0
PACE_MPLS	10563136	748730	SWSD0062-052621MS	3994327	SWSD0062-052621	MS	INITIAL	CuTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:47	EPA 200.8	0.128	0.1	0.235	0.00043	0.001	mg/L	107	0	70	130	0
PACE_MPLS	10563136	748730	SWSD0062-052621MSD	3994328	SWSD0062-052621	MSD	INITIAL	CuTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:50	EPA 200.8	0.128	0.1	0.227	0.00043	0.001	mg/L	99	3	70	130	20
PACE_MPLS	10563136	748732	3994337LCS_10563136	3994337		LCS	INITIAL	CuTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:40	EPA 200.8	0	0.1	0.0977	0.00043	0.001	mg/L	98	0	85	115	0
PACE_MPLS	10563136	748732	3994336BLANK_10563136	3994336		MB	INITIAL	CuTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:36	EPA 200.8	0	0	0.0007	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748732	SWSD0070-052621MS	3994338	SWSD0070-052621	MS	INITIAL	CuTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:55	EPA 200.8	0.0689	0.1	0.167	0.00043	0.001	mg/L	98	0	70	130	0
PACE_MPLS	10563136	748732	SWSD0070-052621MSD	3994339	SWSD0070-052621	MSD	INITIAL	CuTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:58	EPA 200.8	0.0689	0.1	0.166	0.00043	0.001	mg/L	97	0	70	130	20

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10563136	748732	SWSD0083-052621MS	3994340	SWSD0083-052621	MS	INITIAL	CuTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 02:04	EPA 200.8	0.0507	0.1	0.15	0.00043	0.001	mg/L	100	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0069-060121MS	3994290	SWSD0069-060121	MS	INITIAL	FeDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 02:00	EPA 200.8	0.0099	2	2.1	0.012	0.05	mg/L	104	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0062-052621MSD	3994289	SWSD0062-052621	MSD	INITIAL	FeDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:24	EPA 200.8	0.2	2	2.3	0.012	0.05	mg/L	105	2	70	130	20
PACE_MPLS	10563136	748722	SWSD0062-052621MS	3994288	SWSD0062-052621	MS	INITIAL	FeDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:20	EPA 200.8	0.2	2	2.3	0.012	0.05	mg/L	107	0	70	130	0
PACE_MPLS	10563136	748722	3994287LCS_10563136	3994287		LCS	INITIAL	FeDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:26	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
PACE_MPLS	10563136	748722	3994286BLANK_10563136	3994286		MB	INITIAL	FeDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:22	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994296BLANK_10563136	3994296		MB	INITIAL	FeDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:25	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994297LCS_10563136	3994297		LCS	INITIAL	FeDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:29	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	106	0	85	115	0
PACE_MPLS	10563136	748724	SWSD0070-052621MS	3994300	SWSD0070-052621	MS	INITIAL	FeDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:55	EPA 200.8	0.12	2	2.2	0.06	0.25	mg/L	106	0	70	130	0
PACE_MPLS	10563136	748724	SWSD0070-052621MSD	3994634	SWSD0070-052621	MSD	INITIAL	FeDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:58	EPA 200.8	0.12	2	2.3	0.06	0.25	mg/L	109	3	70	130	20
PACE_MPLS	10563136	748730	SWSD0069-060121MS	3994329	SWSD0069-060121	MS	INITIAL	FeTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 02:30	EPA 200.8	0.004	2	1.9	0.012	0.05	mg/L	95	0	70	130	0
PACE_MPLS	10563136	748730	3994325BLANK_10563136	3994325		MB	INITIAL	FeTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:47	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748730	3994326LCS_10563136	3994326		LCS	INITIAL	FeTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:50	EPA 200.8	0	2	1.93	0.012	0.05	mg/L	97	0	85	115	0
PACE_MPLS	10563136	748730	SWSD0062-052621MSD	3994328	SWSD0062-052621	MSD	INITIAL	FeTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:50	EPA 200.8	6.81	2	9.06	0.012	0.05	mg/L	113	0	70	130	20
PACE_MPLS	10563136	748730	SWSD0062-052621MS	3994327	SWSD0062-052621	MS	INITIAL	FeTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:47	EPA 200.8	6.81	2	9.08	0.012	0.05	mg/L	114	0	70	130	0
PACE_MPLS	10563136	748732	3994337LCS_10563136	3994337		LCS	INITIAL	FeTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:40	EPA 200.8	0	2	2.05	0.012	0.05	mg/L	102	0	85	115	0
PACE_MPLS	10563136	748732	3994336BLANK_10563136	3994336		MB	INITIAL	FeTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:36	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748732	SWSD0070-052621MSD	3994339	SWSD0070-052621	MSD	INITIAL	FeTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:58	EPA 200.8	2.11	2	4.24	0.012	0.05	mg/L	107	1	70	130	20
PACE_MPLS	10563136	748732	SWSD0070-052621MS	3994338	SWSD0070-052621	MS	INITIAL	FeTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:55	EPA 200.8	2.11	2	4.21	0.012	0.05	mg/L	105	0	70	130	0
PACE_MPLS	10563136	748732	SWSD0083-052621MS	3994340	SWSD0083-052621	MS	INITIAL	FeTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 02:04	EPA 200.8	1.38	2	3.53	0.012	0.05	mg/L	107	0	70	130	0
PACE_MPLS	10563136	748817	SWSD0054-052621MS	3994603	SWSD0054-052621	MS	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 11:06	EPA 245.1	0.00001	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10563136	748817	3994601BLANK_10563136	3994601		MB	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 11:00	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748817	3994602LCS_10563136	3994602		LCS	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 11:01	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	101	0	85	115	0
PACE_MPLS	10563136	748817	SWSD0062-052621MSD	3994605	SWSD0062-052621	MSD	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 11:23	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	2	70	130	20
PACE_MPLS	10563136	748817	SWSD0062-052621MS	3994604	SWSD0062-052621	MS	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 11:22	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10563136	748818	3994606BLANK_10563136	3994606		MB	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 12:17	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748818	3994607LCS_10563136	3994607		LCS	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 12:19	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
PACE_MPLS	10563136	748818	SWSD0070-052621MSD	3994609	SWSD0070-052621	MSD	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 12:23	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	101	3	70	130	20
PACE_MPLS	10563136	748818	SWSD0082-052521MS	3994610	SWSD0082-052521	MS	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 12:45	EPA 245.1	0.00002	0.005	0.005	0.000045	0.0002	mg/L	100	0	70	130	0
PACE_MPLS	10563136	748818	SWSD0070-052621MS	3994608	SWSD0070-052621	MS	INITIAL	HgDis	D	1	2021-06-14 07:57	EPA 245.1	2021-06-16 12:22	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
PACE_MPLS	10563136	748812	SWSD0055-052521MS	3994579	SWSD0055-052521	MS	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 12:58	EPA 245.1	0.0001	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
PACE_MPLS	10563136	748812	3994577BLANK_10563136	3994577		MB	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 12:51	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748812	3994578LCS_10563136	3994578		LCS	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 12:52	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	85	115	0
PACE_MPLS	10563136	748812	SWSD0062-052621MS	3994580	SWSD0062-052621	MS	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 01:13	EPA 245.1	0.00005	0.005	0.0052	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10563136	748812	SWSD0062-052621MSD	3994581	SWSD0062-052621	MSD	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 01:15	EPA 245.1	0.00005	0.005	0.0052	0.000045	0.0002	mg/L	103	1	70	130	20
PACE_MPLS	10563136	748813	3994582BLANK_10563136	3994582		MB	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 11:42	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748813	3994583LCS_10563136	3994583		LCS	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 11:44	EPA 245.1	0	0.005	0.0054	0.000045	0.0002	mg/L	108	0	85	115	0
PACE_MPLS	10563136	748813	SWSD0070-052621MS	3994584	SWSD0070-052621	MS	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 11:47	EPA 245.1	0.00002	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10563136	748813	SWSD0070-052621MSD	3994585	SWSD0070-052621	MSD	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 11:48	EPA 245.1	0.00002	0.005	0.0052	0.000045	0.0002	mg/L	104	2	70	130	20
PACE_MPLS	10563136	748813	SWSD0081-052621MS	3994586	SWSD0081-052621	MS	INITIAL	HgTR	T	1	2021-06-14 07:57	EPA 245.1	2021-06-16 12:09	EPA 245.1	0.00006	0.005	0.0055	0.000045	0.0002	mg/L	108	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0062-052621MS	3994288	SWSD0062-052621	MS	INITIAL	PbDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:20	EPA 200.8	0.0014	0.1	0.11	0.000043	0.0001	mg/L	104	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0069-060121MS	3994290	SWSD0069-060121	MS	INITIAL	PbDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 02:00	EPA 200.8	0.000082	0.1	0.1	0.000043	0.0001	mg/L	104	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0062-052621MSD	3994289	SWSD0062-052621	MSD	INITIAL	PbDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:24	EPA 200.8	0.0014	0.1	0.11	0.000043	0.0001	mg/L	105	0	70	130	20
PACE_MPLS	10563136	748722	3994287LCS_10563136	3994287		LCS	INITIAL	PbDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:26	EPA 200.8	0	0.1	0.098	0.000043	0.0001	mg/L	98	0	85	115	0
PACE_MPLS	10563136	748722	3994286BLANK_10563136	3994286		MB	INITIAL	PbDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:22	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994296BLANK_10563136	3994296		MB	INITIAL	PbDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:25	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994297LCS_10563136	3994297		LCS	INITIAL	PbDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:29	EPA 200.8	0	0.1	0.097	0.000043	0.0001	mg/L	97	0	85	115	0
PACE_MPLS	10563136	748724	SWSD0070-052621MSD	3994634	SWSD0070-052621	MSD	INITIAL	PbDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:58	EPA 200.8	0.00083	0.1	0.096	0.00022	0.0005	mg/L	96	1	70	130	20
PACE_MPLS	10563136	748724	SWSD0070-052621MS	3994300	SWSD0070-052621	MS	INITIAL	PbDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:55	EPA 200.8	0.00083	0.1	0.097	0.00022	0.0005	mg/L	96	0	70	130	0
PACE_MPLS	10563136	748730	SWSD0069-060121MS	3994329	SWSD0069-060121	MS	INITIAL	PbTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 02:30	EPA 200.8	0.000087	0.1	0.0941	0.000043	0.0001	mg/L	94	0	70	130	0
PACE_MPLS	10563136	748730	3994326LCS_10563136	3994326		LCS	INITIAL	PbTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:50	EPA 200.8	0	0.1	0.0999	0.000043	0.0001	mg/L	100	0	85	115	0
PACE_MPLS	10563136	748730	3994325BLANK_10563136	3994325		MB	INITIAL	PbTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:47	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748730	SWSD0062-052621MSD	3994328	SWSD0062-052621	MSD	INITIAL	PbTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:50	EPA 200.8	0.0435	0.1	0.144	0.000043	0.0001	mg/L	100	0	70	130	20
PACE_MPLS	10563136	748730	SWSD0062-052621MS	3994327	SWSD0062-052621	MS	INITIAL	PbTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:47	EPA 200.8	0.0435	0.1	0.144	0.000043	0.0001	mg/L	101	0	70	130	0
PACE_MPLS	10563136	748732	3994337LCS_10563136	3994337		LCS	INITIAL	PbTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:40	EPA 200.8	0	0.1	0.0998	0.000043	0.0001	mg/L	100	0	85	115	0
PACE_MPLS	10563136	748732	3994336BLANK_10563136	3994336		MB	INITIAL	PbTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:36	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748732	SWSD0070-052621MSD	3994339	SWSD0070-052621	MSD	INITIAL	PbTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:58	EPA 200.8	0.013	0.1	0.112	0.000043	0.0001	mg/L	99	2	70	130	20
PACE_MPLS	10563136	748732	SWSD0070-052621MS	3994338	SWSD0070-052621	MS	INITIAL	PbTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:55	EPA 200.8	0.013	0.1	0.114	0.000043	0.0001	mg/L	101	0	70	130	0
PACE_MPLS	10563136	748732	SWSD0083-052621MS	3994340	SWSD0083-052621	MS	INITIAL	PbTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 02:04	EPA 200.8	0.009	0.1	0.11	0.000043	0.0001	mg/L	101	0	70	130	0
PACE_MPLS	10563136	748994	3995254BLANK_10563136	3995254		MB	INITIAL	SO4	T	1	2021-06-15 11:42	METHOD	2021-06-15 11:42	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10563136	748994	3995255LCS_10563136	3995255		LCS	INITIAL	SO4	T	1	2021-06-15 11:42	METHOD	2021-06-15 11:42	ASTM D516-90-02	0	20	17.8	1.2	2.5	mg/L	89	0	80	120	0
PACE_MPLS	10563136	748994	3995256LCSD_10563136	3995256	3995255LCS_10563136	LCSD	INITIAL	SO4	T	1	2021-06-15 11:43	METHOD	2021-06-15 11:43	ASTM D516-90-02	0	20	17.4	1.2	2.5	mg/L	87	2	80	120	20
PACE_MPLS	10563136	749094	3995840BLANK_10563136	3995840		MB	INITIAL	SO4	T	1	2021-06-15 12:30	METHOD	2021-06-15 12:30	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10563136	749094	3995841LCS_10563136	3995841		LCS	INITIAL	SO4	T	1	2021-06-15 12:31	METHOD	2021-06-15 12:31	ASTM D516-90-02	0	20	18.7	1.2	2.5	mg/L	93	0	80	120	0
PACE_MPLS	10563136	749094	3995842LCSD_10563136	3995842	3995841LCS_10563136	LCSD	INITIAL	SO4	T	1	2021-06-15 12:32	METHOD	2021-06-15 12:32	ASTM D516-90-02	0	20	18.2	1.2	2.5	mg/L	91	2	80	120	20
PACE_MPLS	10563136	749094	SWSD0062-052621MS	3995843	SWSD0062-052621	MS	INITIAL	SO4	T	5	2021-06-15 12:48	METHOD	2021-06-15 12:48	ASTM D516-90-02	20.4	20	45.2	6	12.5	mg/L	124	0	80	120	0
PACE_MPLS	10563136	749094	SWSD0062-052621MSD	3995844	SWSD0062-052621	MSD	INITIAL	SO4	T	5	2021-06-15 12:49	METHOD	2021-06-15 12:49	ASTM D516-90-02	20.4	20	46.8	6	12.5	mg/L	132	4	80	120	30
PACE_MPLS	10563136	749677	SWSD0063-052621MS	3998652	SWSD0063-052621	MS	INITIAL	SO4	T	5	2021-06-16 04:50	METHOD	2021-06-16 04:50	ASTM D516-90-02	38.2	20	52.1	6	12.5	mg/L	70	0	80	120	0
PACE_MPLS	10563136	749677	SWSD0063-052621MSD	3998653	SWSD0063-052621	MSD	INITIAL	SO4	T	5	2021-06-16 04:51	METHOD	2021-06-16 04:51	ASTM D516-90-02	38.2	20	48.3	6	12.5	mg/L	51	8	80	120	30
PACE_MPLS	10563136	749677	3998649BLANK_10563136	3998649		MB	INITIAL	SO4	T	1	2021-06-16 04:15	METHOD	2021-06-16 04:15	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10563136	749677	3998650LCS_10563136	3998650		LCS	INITIAL	SO4	T	1	2021-06-16 04:16	METHOD	2021-06-16 04:16	ASTM D516-90-02	0	20	19.2	1.2	2.5	mg/L	96	0	80	120	0
PACE_MPLS	10563136	749677	3998651LCSD_10563136	3998651	3998650LCS_10563136	LCSD	INITIAL	SO4	T	1	2021-06-16 04:16	METHOD	2021-06-16 04:16	ASTM D516-90-02	0	20	20.3	1.2	2.5	mg/L	101	5	80	120	20
PACE_MPLS	10563136	749677	SWSD0070-052621MSD	3998655	SWSD0070-052621	MSD	INITIAL	SO4	T	5	2021-06-16 04:54	METHOD	2021-06-16 04:54	ASTM D516-90-02	27.5	20	44.6	6	12.5	mg/L	85	0	80	120	30
PACE_MPLS	10563136	749677	SWSD0070-052621MS	3998654	SWSD0070-052621	MS	INITIAL	SO4	T	5	2021-06-16 04:53	METHOD	2021-06-16 04:53	ASTM D516-90-02	27.5	20	44.4	6	12.5	mg/L	85	0	80	120	0
PACE_MPLS	10563136	745916	SWSD0070-052621DUP	3978881	SWSD0070-052621	LR	INITIAL	TSS	T	1	2021-06-02 10:50	METHOD	2021-06-02 10:50	SM 2540D	29.8	0	43.7	5	10	mg/L	0	38	0	0	5
PACE_MPLS	10563136	745916	SWSD0062-052621DUP	3978880	SWSD0062-052621	LR	INITIAL	TSS	T	1	2021-06-02 10:50	METHOD	2021-06-02 10:50	SM 2540D	152	0	157	5	10	mg/L	0	3	0	0	5
PACE_MPLS	10563136	745916	3978878BLANK_10563136	3978878		MB	INITIAL	TSS	T	1	2021-06-02 10:50	METHOD	2021-06-02 10:50	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10563136	745916	3978879LCS_10563136	3978879		LCS	INITIAL	TSS	T	1	2021-06-02 10:50	METHOD	2021-06-02 10:50	SM 2540D	0	100	112	10	20	mg/L	112	0	80	120	0
PACE_MPLS	10563136	746233	3980528BLANK_10563136	3980528		MB	INITIAL	TSS	T	1	2021-06-03 05:28	METHOD	2021-06-03 05:28	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10563136	746233	3980529LCS_10563136	3980529		LCS	INITIAL	TSS	T	1	2021-06-03 05:28	METHOD	2021-06-03 05:28	SM 2540D	0	100	110	10	20	mg/L	110	0	80	120	0
PACE_MPLS	10563136	746233	SWSD0055-052521DUP	3980531	SWSD0055-052521	LR	INITIAL	TSS	T	1	2021-06-03 05:28	METHOD	2021-06-03 05:28	SM 2540D	250	0	244	5	10	mg/L	0	3	0	0	5
PACE_MPLS	10563136	746698	3982958BLANK_10563136	3982958		MB	INITIAL	TSS	T	1	2021-06-04 10:09	METHOD	2021-06-04 10:09	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10563136	746698	3982959LCS_10563136	3982959		LCS	INITIAL	TSS	T	1	2021-06-04 10:09	METHOD	2021-06-04 10:09	SM 2540D	0	100	88.4	10	20	mg/L	88	0	80	120	0
PACE_MPLS	10563136	747221	3985960BLANK_10563136	3985960		MB	INITIAL	TSS	T	1	2021-06-07 09:41	METHOD	2021-06-07 09:41	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10563136	747221	3985961LCS_10563136	3985961		LCS	INITIAL	TSS	T	1	2021-06-07 09:41	METHOD	2021-06-07 09:41	SM 2540D	0	100	86.2	10	20	mg/L	86	0	80	120	0
PACE_MPLS	10563136	748722	3994287LCS_10563136	3994287		LCS	INITIAL	ZnDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:26	EPA 200.8	0	0.1	0.099	0.0023	0.005	mg/L	99	0	85	115	0
PACE_MPLS	10563136	748722	3994286BLANK_10563136	3994286		MB	INITIAL	ZnDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 12:22	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748722	SWSD0062-052621MSD	3994289	SWSD0062-052621	MSD	INITIAL	ZnDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:24	EPA 200.8	0.011	0.1	0.11	0.0023	0.005	mg/L	99	4	70	130	20
PACE_MPLS	10563136	748722	SWSD0062-052621MS	3994288	SWSD0062-052621	MS	INITIAL	ZnDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 01:20	EPA 200.8	0.011	0.1	0.11	0.0023	0.005	mg/L	103	0	70	130	0
PACE_MPLS	10563136	748722	SWSD0069-060121MS	3994290	SWSD0069-060121	MS	INITIAL	ZnDis	D	1	2021-06-15 05:08	EPA 200.8	2021-06-16 02:00	EPA 200.8	0.0015	0.1	0.1	0.0023	0.005	mg/L	99	0	70	130	0
PACE_MPLS	10563136	748724	SWSD0070-052621MS	3994300	SWSD0070-052621	MS	INITIAL	ZnDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:55	EPA 200.8	0.023	0.1	0.12	0.011	0.025	mg/L	99	0	70	130	0
PACE_MPLS	10563136	748724	SWSD0070-052621MSD	3994634	SWSD0070-052621	MSD	INITIAL	ZnDis	D	5	2021-06-15 05:46	EPA 200.8	2021-06-16 07:58	EPA 200.8	0.023	0.1	0.12	0.011	0.025	mg/L	101	1	70	130	20
PACE_MPLS	10563136	748724	3994296BLANK_10563136	3994296		MB	INITIAL	ZnDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:25	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748724	3994297LCS_10563136	3994297		LCS	INITIAL	ZnDis	D	1	2021-06-15 05:46	EPA 200.8	2021-06-16 07:29	EPA 200.8	0	0.1	0.099	0.0023	0.005	mg/L	99	0	85	115	0
PACE_MPLS	10563136	748730	3994326LCS_10563136	3994326		LCS	INITIAL	ZnTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:50	EPA 200.8	0	0.1	0.0954	0.0023	0.005	mg/L	95	0	85	115	0
PACE_MPLS	10563136	748730	3994325BLANK_10563136	3994325		MB	INITIAL	ZnTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 12:47	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748730	SWSD0062-052621MS	3994327	SWSD0062-052621	MS	INITIAL	ZnTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:47	EPA 200.8	0.178	0.1	0.278	0.0023	0.005	mg/L	100	0	70	130	0
PACE_MPLS	10563136	748730	SWSD0062-052621MSD	3994328	SWSD0062-052621	MSD	INITIAL	ZnTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 01:50	EPA 200.8	0.178	0.1	0.277	0.0023	0.005	mg/L	99	1	70	130	20
PACE_MPLS	10563136	748730	SWSD0069-060121MS	3994329	SWSD0069-060121	MS	INITIAL	ZnTR	T	1	2021-06-15 05:08	EPA 200.8	2021-06-17 02:30	EPA 200.8	0.00071	0.1	0.0926	0.0023	0.005	mg/L	92	0	70	130	0
PACE_MPLS	10563136	748732	SWSD0070-052621MS	3994338	SWSD0070-052621	MS	INITIAL	ZnTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:55	EPA 200.8	0.0775	0.1	0.177	0.0023	0.005	mg/L	99	0	70	130	0
PACE_MPLS	10563136	748732	SWSD0083-052621MS	3994340	SWSD0083-052621	MS	INITIAL	ZnTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 02:04	EPA 200.8	0.0805	0.1	0.19	0.0023	0.005	mg/L	109	0	70	130	0
PACE_MPLS	10563136	748732	SWSD0070-052621MSD	3994339	SWSD0070-052621	MSD	INITIAL	ZnTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:58	EPA 200.8	0.0775	0.1	0.174	0.0023	0.005	mg/L	96	2	70	130	20
PACE_MPLS	10563136	748732	3994336BLANK_10563136	3994336		MB	INITIAL	ZnTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:36	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10563136	748732	3994337LCS_10563136	3994337		LCS	INITIAL	ZnTR	T	1	2021-06-15 05:46	EPA 200.8	2021-06-17 12:40	EPA 200.8	0	0.1	0.0986	0.0023	0.005	mg/L	99	0	85	115	0
PACE_MPLS	10565533	751802	4008905BLANK_10565533	4008905		MB	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:30	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751802	4008906LCS_10565533	4008906		LCS	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:33	EPA 200.8	0	0.1	0.099	0.00014	0.0005	mg/L	99	0	85	115	0
PACE_MPLS	10565533	751802	SWSD0086-061021MS	4008907	SWSD0086-061021	MS	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:50	EPA 200.8	0.0038	0.1	0.1	0.00014	0.0005	mg/L	99	0	70	130	0
PACE_MPLS	10565533	751802	SWSD0086-061021MSD	4008908	SWSD0086-061021	MSD	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:53	EPA 200.8	0.0038	0.1	0.11	0.00014	0.0005	mg/L	102	3	70	130	20
PACE_MPLS	10565533	751802	SWSD0100-061021MS	4008909	SWSD0100-061021	MS	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:07	EPA 200.8	0.0085	0.1	0.11	0.00014	0.0005	mg/L	98	0	70	130	0
PACE_MPLS	10565533	751802	SWSD0100-061021MSD	4008910	SWSD0100-061021	MSD	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:10	EPA 200.8	0.0085	0.1	0.11	0.00014	0.0005	mg/L	98	0	70	130	20
PACE_MPLS	10565533	751803	SWSD0102-061021MS	4008913	SWSD0102-061021	MS	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:16	EPA 200.8	0.0079	0.1	0.1	0.00014	0.0005	mg/L	97	0	70	130	0
PACE_MPLS	10565533	751803	SWSD0102-061021MSD	4008914	SWSD0102-061021	MSD	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:19	EPA 200.8	0.0079	0.1	0.11	0.00014	0.0005	mg/L	99	2	70	130	20
PACE_MPLS	10565533	751803	SWSD0112-061021MS	4008915	SWSD0112-061021	MS	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 03:07	EPA 200.8	0.005	0.1	0.11	0.00014	0.0005	mg/L	101	0	70	130	0
PACE_MPLS	10565533	751803	4008912LCS_10565533	4008912		LCS	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:01	EPA 200.8	0	0.1	0.097	0.00014	0.0005	mg/L	97	0	85	115	0
PACE_MPLS	10565533	751803	4008911BLANK_10565533	4008911		MB	INITIAL	AsDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 01:57	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751805	4008922BLANK_10565533	4008922		MB	INITIAL	AsTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:55	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751805	4008923LCS_10565533	4008923		LCS	INITIAL	AsTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:59	EPA 200.8	0	0.1	0.0963	0.00014	0.0005	mg/L	96	0	85	115	0
PACE_MPLS	10565533	751805	SWSD0086-061021MS	4008924	SWSD0086-061021	MS	INITIAL	AsTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:18	EPA 200.8	0.01	0.1	0.107	0.0007	0.0025	mg/L	97	0	70	130	0
PACE_MPLS	10565533	751805	SWSD0086-061021MSD	4008925	SWSD0086-061021	MSD	INITIAL	AsTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:21	EPA 200.8	0.01	0.1	0.109	0.0007	0.0025	mg/L	99	2	70	130	20
PACE_MPLS	10565533	751805	SWSD0100-061021MS	4008926	SWSD0100-061021	MS	INITIAL	AsTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:39	EPA 200.8	0.011	0.1	0.111	0.0007	0.0025	mg/L	100	0	70	130	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10565533	751805	SWSD0100-061021MSD	4008927	SWSD0100-061021	MSD	INITIAL	AsTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:42	EPA 200.8	0.011	0.1	0.118	0.0007	0.0025	mg/L	107	6	70	130	20
PACE_MPLS	10565533	751806	SWSD0102-061021MSD	4008931	SWSD0102-061021	MSD	INITIAL	AsTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:50	EPA 200.8	0.0124	0.1	0.117	0.00014	0.0005	mg/L	105	4	70	130	20
PACE_MPLS	10565533	751806	SWSD0102-061021MS	4008930	SWSD0102-061021	MS	INITIAL	AsTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:47	EPA 200.8	0.0124	0.1	0.112	0.00014	0.0005	mg/L	100	0	70	130	0
PACE_MPLS	10565533	751806	SWSD0112-061021MS	4008932	SWSD0112-061021	MS	INITIAL	AsTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 03:37	EPA 200.8	0.0135	0.1	0.115	0.00014	0.0005	mg/L	101	0	70	130	0
PACE_MPLS	10565533	751806	4008928BLANK_10565533	4008928		MB	INITIAL	AsTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:30	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751806	4008929LCS_10565533	4008929		LCS	INITIAL	AsTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:33	EPA 200.8	0	0.1	0.101	0.00014	0.0005	mg/L	101	0	85	115	0
PACE_MPLS	10565533	751802	SWSD0086-061021MS	4008907	SWSD0086-061021	MS	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:50	EPA 200.8	0.00027	0.1	0.1	0.00003	0.00008	mg/L	101	0	70	130	0
PACE_MPLS	10565533	751802	4008906LCS_10565533	4008906		LCS	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:33	EPA 200.8	0	0.1	0.1	0.00003	0.00008	mg/L	103	0	85	115	0
PACE_MPLS	10565533	751802	4008905BLANK_10565533	4008905		MB	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:30	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751802	SWSD0100-061021MSD	4008910	SWSD0100-061021	MSD	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:10	EPA 200.8	0.00026	0.1	0.1	0.00003	0.00008	mg/L	101	0	70	130	20
PACE_MPLS	10565533	751802	SWSD0086-061021MSD	4008908	SWSD0086-061021	MSD	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:53	EPA 200.8	0.00027	0.1	0.11	0.00003	0.00008	mg/L	105	4	70	130	20
PACE_MPLS	10565533	751802	SWSD0100-061021MS	4008909	SWSD0100-061021	MS	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:07	EPA 200.8	0.00026	0.1	0.1	0.00003	0.00008	mg/L	101	0	70	130	0
PACE_MPLS	10565533	751803	SWSD0102-061021MS	4008913	SWSD0102-061021	MS	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:16	EPA 200.8	0.00026	0.1	0.094	0.00003	0.00008	mg/L	94	0	70	130	0
PACE_MPLS	10565533	751803	SWSD0102-061021MSD	4008914	SWSD0102-061021	MSD	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:19	EPA 200.8	0.00026	0.1	0.093	0.00003	0.00008	mg/L	93	1	70	130	20
PACE_MPLS	10565533	751803	SWSD0112-061021MS	4008915	SWSD0112-061021	MS	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 03:07	EPA 200.8	0.00013	0.1	0.099	0.00003	0.00008	mg/L	98	0	70	130	0
PACE_MPLS	10565533	751803	4008911BLANK_10565533	4008911		MB	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 01:57	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751803	4008912LCS_10565533	4008912		LCS	INITIAL	CdDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:01	EPA 200.8	0	0.1	0.093	0.00003	0.00008	mg/L	93	0	85	115	0
PACE_MPLS	10565533	751805	4008923LCS_10565533	4008923		LCS	INITIAL	CdTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:59	EPA 200.8	0	0.1	0.093	0.00003	0.00008	mg/L	93	0	85	115	0
PACE_MPLS	10565533	751805	4008922BLANK_10565533	4008922		MB	INITIAL	CdTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:55	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751805	SWSD0086-061021MSD	4008925	SWSD0086-061021	MSD	INITIAL	CdTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:21	EPA 200.8	0.001	0.1	0.095	0.00015	0.0004	mg/L	94	0	70	130	20
PACE_MPLS	10565533	751805	SWSD0086-061021MS	4008924	SWSD0086-061021	MS	INITIAL	CdTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:18	EPA 200.8	0.001	0.1	0.0951	0.00015	0.0004	mg/L	94	0	70	130	0
PACE_MPLS	10565533	751805	SWSD0100-061021MSD	4008927	SWSD0100-061021	MSD	INITIAL	CdTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:42	EPA 200.8	0.00039	0.1	0.102	0.00015	0.0004	mg/L	102	4	70	130	20
PACE_MPLS	10565533	751805	SWSD0100-061021MS	4008926	SWSD0100-061021	MS	INITIAL	CdTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:39	EPA 200.8	0.00039	0.1	0.0984	0.00015	0.0004	mg/L	98	0	70	130	0
PACE_MPLS	10565533	751806	SWSD0102-061021MSD	4008931	SWSD0102-061021	MSD	INITIAL	CdTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:50	EPA 200.8	0.00056	0.1	0.107	0.00003	0.00008	mg/L	107	5	70	130	20
PACE_MPLS	10565533	751806	SWSD0102-061021MS	4008930	SWSD0102-061021	MS	INITIAL	CdTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:47	EPA 200.8	0.00056	0.1	0.102	0.00003	0.00008	mg/L	102	0	70	130	0
PACE_MPLS	10565533	751806	SWSD0112-061021MS	4008932	SWSD0112-061021	MS	INITIAL	CdTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 03:37	EPA 200.8	0.00059	0.1	0.103	0.00003	0.00008	mg/L	102	0	70	130	0
PACE_MPLS	10565533	751806	4008929LCS_10565533	4008929		LCS	INITIAL	CdTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:33	EPA 200.8	0	0.1	0.102	0.00003	0.00008	mg/L	102	0	85	115	0
PACE_MPLS	10565533	751806	4008928BLANK_10565533	4008928		MB	INITIAL	CdTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:30	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751802	SWSD0086-061021MS	4008907	SWSD0086-061021	MS	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:50	EPA 200.8	0.023	0.1	0.13	0.00043	0.001	mg/L	103	0	70	130	0
PACE_MPLS	10565533	751802	4008906LCS_10565533	4008906		LCS	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:33	EPA 200.8	0	0.1	0.11	0.00043	0.001	mg/L	107	0	85	115	0
PACE_MPLS	10565533	751802	4008905BLANK_10565533	4008905		MB	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:30	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751802	SWSD0100-061021MSD	4008910	SWSD0100-061021	MSD	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:10	EPA 200.8	0.053	0.1	0.16	0.00043	0.001	mg/L	105	1	70	130	20
PACE_MPLS	10565533	751802	SWSD0100-061021MS	4008909	SWSD0100-061021	MS	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:07	EPA 200.8	0.053	0.1	0.16	0.00043	0.001	mg/L	103	0	70	130	0
PACE_MPLS	10565533	751802	SWSD0086-061021MSD	4008908	SWSD0086-061021	MSD	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:53	EPA 200.8	0.023	0.1	0.13	0.00043	0.001	mg/L	107	4	70	130	20
PACE_MPLS	10565533	751803	SWSD0102-061021MS	4008913	SWSD0102-061021	MS	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:16	EPA 200.8	0.06	0.1	0.14	0.00043	0.001	mg/L	79	0	70	130	0
PACE_MPLS	10565533	751803	SWSD0102-061021MSD	4008914	SWSD0102-061021	MSD	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:19	EPA 200.8	0.06	0.1	0.14	0.00043	0.001	mg/L	77	1	70	130	20
PACE_MPLS	10565533	751803	SWSD0112-061021MS	4008915	SWSD0112-061021	MS	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 03:07	EPA 200.8	0.038	0.1	0.14	0.00043	0.001	mg/L	100	0	70	130	0
PACE_MPLS	10565533	751803	4008911BLANK_10565533	4008911		MB	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 01:57	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751803	4008912LCS_10565533	4008912		LCS	INITIAL	CuDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:01	EPA 200.8	0	0.1	0.1	0.00043	0.001	mg/L	100	0	85	115	0
PACE_MPLS	10565533	751805	4008922BLANK_10565533	4008922		MB	INITIAL	CuTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:55	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751805	4008923LCS_10565533	4008923		LCS	INITIAL	CuTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:59	EPA 200.8	0	0.1	0.0953	0.00043	0.001	mg/L	95	0	85	115	0
PACE_MPLS	10565533	751805	SWSD0086-061021MS	4008924	SWSD0086-061021	MS	INITIAL	CuTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:18	EPA 200.8	0.0886	0.1	0.19	0.0021	0.005	mg/L	101	0	70	130	0
PACE_MPLS	10565533	751805	SWSD0086-061021MSD	4008925	SWSD0086-061021	MSD	INITIAL	CuTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:21	EPA 200.8	0.0886	0.1	0.194	0.0021	0.005	mg/L	105	2	70	130	20
PACE_MPLS	10565533	751805	SWSD0100-061021MS	4008926	SWSD0100-061021	MS	INITIAL	CuTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:39	EPA 200.8	0.0911	0.1	0.192	0.0021	0.005	mg/L	101	0	70	130	0
PACE_MPLS	10565533	751805	SWSD0100-061021MSD	4008927	SWSD0100-061021	MSD	INITIAL	CuTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:42	EPA 200.8	0.0911	0.1	0.205	0.0021	0.005	mg/L	114	6	70	130	20
PACE_MPLS	10565533	751806	SWSD0102-061021MSD	4008931	SWSD0102-061021	MSD	INITIAL	CuTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:50	EPA 200.8	0.117	0.1	0.233	0.00043	0.001	mg/L	115	5	70	130	20
PACE_MPLS	10565533	751806	SWSD0102-061021MS	4008930	SWSD0102-061021	MS	INITIAL	CuTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:47	EPA 200.8	0.117	0.1	0.221	0.00043	0.001	mg/L	103	0	70	130	0
PACE_MPLS	10565533	751806	SWSD0112-061021MS	4008932	SWSD0112-061021	MS	INITIAL	CuTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 03:37	EPA 200.8	0.25	0.1	0.347	0.00043	0.001	mg/L	97	0	70	130	0
PACE_MPLS	10565533	751806	4008928BLANK_10565533	4008928		MB	INITIAL	CuTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:30	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751806	4008929LCS_10565533	4008929		LCS	INITIAL	CuTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:33	EPA 200.8	0	0.1	0.106	0.00043	0.001	mg/L	106	0	85	115	0
PACE_MPLS	10565533	751802	SWSD0086-061021MS	4008907	SWSD0086-061021	MS	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:50	EPA 200.8	0.094	2	2.2	0.012	0.05	mg/L	104	0	70	130	0
PACE_MPLS	10565533	751802	4008906LCS_10565533	4008906		LCS	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:33	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	107	0	85	115	0
PACE_MPLS	10565533	751802	4008905BLANK_10565533	4008905		MB	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:30	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751802	SWSD0100-061021MSD	4008910	SWSD0100-061021	MSD	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:10	EPA 200.8	0.093	2	2.2	0.012	0.05	mg/L	105	4	70	130	20
PACE_MPLS	10565533	751802	SWSD0100-061021MS	4008909	SWSD0100-061021	MS	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:07	EPA 200.8	0.093	2	2.3	0.012	0.05	mg/L	110	0	70	130	0
PACE_MPLS	10565533	751802	SWSD0086-061021MSD	4008908	SWSD0086-061021	MSD	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:53	EPA 200.8	0.094	2	2.3	0.012	0.05	mg/L	110	5	70	130	20
PACE_MPLS	10565533	751803	SWSD0102-061021MS	4008913	SWSD0102-061021	MS	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:16	EPA 200.8	0.1	2	2.1	0.012	0.05	mg/L	101	0	70	130	0
PACE_MPLS	10565533	751803	SWSD0102-061021MSD	4008914	SWSD0102-061021	MSD	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:19	EPA 200.8	0.1	2	2.1	0.012	0.05	mg/L	101	0	70	130	20
PACE_MPLS	10565533	751803	SWSD0112-061021MS	4008915	SWSD0112-061021	MS	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 03:07	EPA 200.8	0.09	2	2.2	0.012	0.05	mg/L	106	0	70	130	0
PACE_MPLS	10565533	751803	4008911BLANK_10565533	4008911		MB	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 01:57	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10565533	751803	4008912LCS_10565533	4008912		LCS	INITIAL	FeDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:01	EPA 200.8	0	2	2	0.012	0.05	mg/L	102	0	85	115	0
PACE_MPLS	10565533	751805	4008922BLANK_10565533	4008922		MB	INITIAL	FeTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:55	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751805	4008923LCS_10565533	4008923		LCS	INITIAL	FeTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:59	EPA 200.8	0	2	2.01	0.012	0.05	mg/L	100	0	85	115	0
PACE_MPLS	10565533	751805	SWSD0100-061021MSD	4008927	SWSD0100-061021	MSD	INITIAL	FeTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:42	EPA 200.8	1.78	2	4.19	0.06	0.25	mg/L	120	6	70	130	20
PACE_MPLS	10565533	751805	SWSD0100-061021MS	4008926	SWSD0100-061021	MS	INITIAL	FeTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:39	EPA 200.8	1.78	2	3.96	0.06	0.25	mg/L	109	0	70	130	0
PACE_MPLS	10565533	751805	SWSD0086-061021MSD	4008925	SWSD0086-061021	MSD	INITIAL	FeTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:21	EPA 200.8	5.23	2	7.91	0.06	0.25	mg/L	134	0	70	130	20
PACE_MPLS	10565533	751805	SWSD0086-061021MS	4008924	SWSD0086-061021	MS	INITIAL	FeTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:18	EPA 200.8	5.23	2	7.91	0.06	0.25	mg/L	134	0	70	130	0
PACE_MPLS	10565533	751806	SWSD0102-061021MS	4008930	SWSD0102-061021	MS	INITIAL	FeTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:47	EPA 200.8	2.39	2	4.54	0.012	0.05	mg/L	107	0	70	130	0
PACE_MPLS	10565533	751806	SWSD0102-061021MSD	4008931	SWSD0102-061021	MSD	INITIAL	FeTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:50	EPA 200.8	2.39	2	4.71	0.012	0.05	mg/L	116	4	70	130	20
PACE_MPLS	10565533	751806	SWSD0112-061021MS	4008932	SWSD0112-061021	MS	INITIAL	FeTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 03:37	EPA 200.8	6.94	2	8.88	0.012	0.05	mg/L	97	0	70	130	0
PACE_MPLS	10565533	751806	4008928BLANK_10565533	4008928		MB	INITIAL	FeTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:30	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751806	4008929LCS_10565533	4008929		LCS	INITIAL	FeTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:33	EPA 200.8	0	2	2.14	0.012	0.05	mg/L	107	0	85	115	0
PACE_MPLS	10565533	750528	SWSD0086-061021MS	4002912	SWSD0086-061021	MS	INITIAL	HgDis	D	1	2021-06-23 04:01	EPA 245.1	2021-06-28 12:59	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	105	0	70	130	0
PACE_MPLS	10565533	750528	4002910BLANK_10565533	4002910		MB	INITIAL	HgDis	D	1	2021-06-23 04:01	EPA 245.1	2021-06-28 12:52	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10565533	750528	4002911LCS_10565533	4002911		LCS	INITIAL	HgDis	D	1	2021-06-23 04:01	EPA 245.1	2021-06-28 12:53	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	0	85	115	0
PACE_MPLS	10565533	750528	SWSD0086-061021MSD	4002913	SWSD0086-061021	MSD	INITIAL	HgDis	D	1	2021-06-23 04:01	EPA 245.1	2021-06-28 01:01	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	1	70	130	20
PACE_MPLS	10565533	750528	SWSD0096-061021MS	4002914	SWSD0096-061021	MS	INITIAL	HgDis	D	1	2021-06-23 04:01	EPA 245.1	2021-06-28 01:20	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10565533	750529	SWSD0100-061021MS	4002917	SWSD0100-061021	MS	INITIAL	HgDis	D	1	2021-06-23 09:17	EPA 245.1	2021-06-24 02:21	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10565533	750529	SWSD0100-061021MSD	4002918	SWSD0100-061021	MSD	INITIAL	HgDis	D	1	2021-06-23 09:17	EPA 245.1	2021-06-24 02:22	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	107	1	70	130	20
PACE_MPLS	10565533	750529	SWSD0116-061021MS	4002919	SWSD0116-061021	MS	INITIAL	HgDis	D	1	2021-06-23 09:17	EPA 245.1	2021-06-24 02:46	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
PACE_MPLS	10565533	750529	4002915BLANK_10565533	4002915		MB	INITIAL	HgDis	D	1	2021-06-23 09:17	EPA 245.1	2021-06-24 02:11	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10565533	750529	4002916LCS_10565533	4002916		LCS	INITIAL	HgDis	D	1	2021-06-23 09:17	EPA 245.1	2021-06-24 02:12	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	85	115	0
PACE_MPLS	10565533	750525	4002892BLANK_10565533	4002892		MB	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-28 01:40	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10565533	750525	4002893LCS_10565533	4002893		LCS	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-28 01:42	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
PACE_MPLS	10565533	750525	SWSD0086-061021MS	4002894	SWSD0086-061021	MS	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-28 01:46	EPA 245.1	0.00005	0.005	0.0054	0.000045	0.0002	mg/L	107	0	70	130	0
PACE_MPLS	10565533	750525	SWSD0098-061021MS	4002896	SWSD0098-061021	MS	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-28 02:12	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10565533	750525	SWSD0086-061021MSD	4002895	SWSD0086-061021	MSD	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-28 01:47	EPA 245.1	0.00005	0.005	0.0052	0.000045	0.0002	mg/L	104	3	70	130	20
PACE_MPLS	10565533	750526	SWSD0100-061021MS	4002899	SWSD0100-061021	MS	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-24 03:47	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10565533	750526	SWSD0100-061021MSD	4002900	SWSD0100-061021	MSD	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-24 03:49	EPA 245.1	0	0.005	0.0056	0.000045	0.0002	mg/L	112	5	70	130	20
PACE_MPLS	10565533	750526	SWSD0115-061021MS	4002901	SWSD0115-061021	MS	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-24 04:11	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10565533	750526	4002897BLANK_10565533	4002897		MB	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-24 03:37	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10565533	750526	4002898LCS_10565533	4002898		LCS	INITIAL	HgTR	T	1	2021-06-23 03:22	EPA 245.1	2021-06-24 03:39	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
PACE_MPLS	10565533	751802	SWSD0086-061021MS	4008907	SWSD0086-061021	MS	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:50	EPA 200.8	0.0012	0.1	0.11	0.000043	0.0001	mg/L	105	0	70	130	0
PACE_MPLS	10565533	751802	4008905BLANK_10565533	4008905		MB	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:30	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751802	4008906LCS_10565533	4008906		LCS	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:33	EPA 200.8	0	0.1	0.11	0.000043	0.0001	mg/L	106	0	85	115	0
PACE_MPLS	10565533	751802	SWSD0100-061021MSD	4008910	SWSD0100-061021	MSD	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:10	EPA 200.8	0.00073	0.1	0.1	0.000043	0.0001	mg/L	103	0	70	130	20
PACE_MPLS	10565533	751802	SWSD0100-061021MS	4008909	SWSD0100-061021	MS	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:07	EPA 200.8	0.00073	0.1	0.1	0.000043	0.0001	mg/L	102	0	70	130	0
PACE_MPLS	10565533	751802	SWSD0086-061021MSD	4008908	SWSD0086-061021	MSD	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:53	EPA 200.8	0.0012	0.1	0.11	0.000043	0.0001	mg/L	107	2	70	130	20
PACE_MPLS	10565533	751803	SWSD0102-061021MS	4008913	SWSD0102-061021	MS	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:16	EPA 200.8	0.002	0.1	0.097	0.000043	0.0001	mg/L	95	0	70	130	0
PACE_MPLS	10565533	751803	SWSD0102-061021MSD	4008914	SWSD0102-061021	MSD	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:19	EPA 200.8	0.002	0.1	0.097	0.000043	0.0001	mg/L	95	0	70	130	20
PACE_MPLS	10565533	751803	SWSD0112-061021MS	4008915	SWSD0112-061021	MS	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 03:07	EPA 200.8	0.0005	0.1	0.1	0.000043	0.0001	mg/L	99	0	70	130	0
PACE_MPLS	10565533	751803	4008912LCS_10565533	4008912		LCS	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:01	EPA 200.8	0	0.1	0.098	0.000043	0.0001	mg/L	98	0	85	115	0
PACE_MPLS	10565533	751803	4008911BLANK_10565533	4008911		MB	INITIAL	PbDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 01:57	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751805	4008923LCS_10565533	4008923		LCS	INITIAL	PbTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:59	EPA 200.8	0	0.1	0.0968	0.000043	0.0001	mg/L	97	0	85	115	0
PACE_MPLS	10565533	751805	4008922BLANK_10565533	4008922		MB	INITIAL	PbTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:55	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751805	SWSD0086-061021MS	4008924	SWSD0086-061021	MS	INITIAL	PbTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:18	EPA 200.8	0.0747	0.1	0.174	0.00022	0.0005	mg/L	100	0	70	130	0
PACE_MPLS	10565533	751805	SWSD0100-061021MSD	4008927	SWSD0100-061021	MSD	INITIAL	PbTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:42	EPA 200.8	0.0119	0.1	0.119	0.00022	0.0005	mg/L	107	9	70	130	20
PACE_MPLS	10565533	751805	SWSD0086-061021MSD	4008925	SWSD0086-061021	MSD	INITIAL	PbTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:21	EPA 200.8	0.0747	0.1	0.179	0.00022	0.0005	mg/L	104	2	70	130	20
PACE_MPLS	10565533	751805	SWSD0100-061021MS	4008926	SWSD0100-061021	MS	INITIAL	PbTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:39	EPA 200.8	0.0119	0.1	0.108	0.00022	0.0005	mg/L	96	0	70	130	0
PACE_MPLS	10565533	751806	SWSD0102-061021MS	4008930	SWSD0102-061021	MS	INITIAL	PbTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:47	EPA 200.8	0.0383	0.1	0.14	0.000043	0.0001	mg/L	102	0	70	130	0
PACE_MPLS	10565533	751806	SWSD0102-061021MSD	4008931	SWSD0102-061021	MSD	INITIAL	PbTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:50	EPA 200.8	0.0383	0.1	0.148	0.000043	0.0001	mg/L	110	5	70	130	20
PACE_MPLS	10565533	751806	SWSD0112-061021MS	4008932	SWSD0112-061021	MS	INITIAL	PbTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 03:37	EPA 200.8	0.0339	0.1	0.14	0.000043	0.0001	mg/L	106	0	70	130	0
PACE_MPLS	10565533	751806	4008929LCS_10565533	4008929		LCS	INITIAL	PbTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:33	EPA 200.8	0	0.1	0.105	0.000043	0.0001	mg/L	105	0	85	115	0
PACE_MPLS	10565533	751806	4008928BLANK_10565533	4008928		MB	INITIAL	PbTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:30	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10565533	752067	SWSD0086-061021MS	4010671	SWSD0086-061021	MS	INITIAL	SO4	T	5	2021-06-25 12:06	METHOD	2021-06-25 12:06	ASTM D516-90-02	16.4	100	123	6	12.5	mg/L	106	0	80	120	0
PACE_MPLS	10565533	752067	4010668BLANK_10565533	4010668		MB	INITIAL	SO4	T	1	2021-06-25 11:18	METHOD	2021-06-25 11:18	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10565533	752067	4010669LCS_10565533	4010669		LCS	INITIAL	SO4	T	1	2021-06-25 11:18	METHOD	2021-06-25 11:18	ASTM D516-90-02	0	20	18.2	1.2	2.5	mg/L	91	0	80	120	0
PACE_MPLS	10565533	752067	4010670LCSD_10565533	4010670	4010669LCS_10565533	LCSD	INITIAL	SO4	T	1	2021-06-25 11:19	METHOD	2021-06-25 11:19	ASTM D516-90-02	0	20	18.4	1.2	2.5	mg/L	92	1	80	120	20
PACE_MPLS	10565533	752067	SWSD0086-061021MSD	4010672	SWSD0086-061021	MSD	INITIAL	SO4	T	5	2021-06-25 12:07	METHOD	2021-06-25 12:07	ASTM D516-90-02	16.4	100	116	6	12.5	mg/L	99	6	80	120	30
PACE_MPLS	10565533	752067	SWSD0100-061021MSD	4010674	SWSD0100-061021	MSD	INITIAL	SO4	T	25	2021-06-25 12:17	METHOD	2021-06-25 12:17	ASTM D516-90-02	31.2	500	262	30.2	62.5	mg/L	46	0	80	120	30

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10565533	752067	SWSD0100-061021MS	4010673	SWSD0100-061021	MS	INITIAL	SO4	T	25	2021-06-25 12:17	METHOD	2021-06-25 12:17	ASTM D516-90-02	31.2	500	261	30.2	62.5	mg/L	46	0	80	120	0
PACE_MPLS	10565533	752069	SWSD0105-061021MS	4010682	SWSD0105-061021	MS	INITIAL	SO4	T	5	2021-06-25 05:24	METHOD	2021-06-25 05:24	ASTM D516-90-02	24.7	20	48.6	6	12.5	mg/L	119	0	80	120	0
PACE_MPLS	10565533	752069	SWSD0105-061021MSD	4010683	SWSD0105-061021	MSD	INITIAL	SO4	T	5	2021-06-25 05:24	METHOD	2021-06-25 05:24	ASTM D516-90-02	24.7	20	46.8	6	12.5	mg/L	110	4	80	120	30
PACE_MPLS	10565533	752069	4010679BLANK_10565533	4010679		MB	INITIAL	SO4	T	1	2021-06-25 12:34	METHOD	2021-06-25 12:34	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10565533	752069	4010680LCS_10565533	4010680		LCS	INITIAL	SO4	T	1	2021-06-25 12:35	METHOD	2021-06-25 12:35	ASTM D516-90-02	0	20	19.1	1.2	2.5	mg/L	96	0	80	120	0
PACE_MPLS	10565533	752069	4010681LCSD_10565533	4010681	4010680LCS_10565533	LCSD	INITIAL	SO4	T	1	2021-06-25 12:35	METHOD	2021-06-25 12:35	ASTM D516-90-02	0	20	19	1.2	2.5	mg/L	95	1	80	120	20
PACE_MPLS	10565533	749947	SWSD0086-061021DUP	3999842	SWSD0086-061021	LR	INITIAL	TSS	T	1	2021-06-17 11:26	METHOD	2021-06-17 11:26	SM 2540D	107	0	110	5	10	mg/L	0	2	0	0	5
PACE_MPLS	10565533	749947	3999840BLANK_10565533	3999840		MB	INITIAL	TSS	T	1	2021-06-17 11:26	METHOD	2021-06-17 11:26	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10565533	749947	3999841LCS_10565533	3999841		LCS	INITIAL	TSS	T	1	2021-06-17 11:26	METHOD	2021-06-17 11:26	SM 2540D	0	100	89	10	20	mg/L	89	0	80	120	0
PACE_MPLS	10565533	749947	SWSD0100-061021DUP	3999843	SWSD0100-061021	LR	INITIAL	TSS	T	1	2021-06-17 11:26	METHOD	2021-06-17 11:26	SM 2540D	29.3	0	27.5	5	10	mg/L	0	6	0	0	5
PACE_MPLS	10565533	749948	SWSD0106-061021DUP	3999846	SWSD0106-061021	LR	INITIAL	TSS	T	1	2021-06-17 10:36	METHOD	2021-06-17 10:36	SM 2540D	122	0	120	5	10	mg/L	0	2	0	0	5
PACE_MPLS	10565533	749948	SWSD0107-061021DUP	3999847	SWSD0107-061021	LR	INITIAL	TSS	T	1	2021-06-17 10:36	METHOD	2021-06-17 10:36	SM 2540D	116	0	102	5	10	mg/L	0	13	0	0	5
PACE_MPLS	10565533	749948	3999844BLANK_10565533	3999844		MB	INITIAL	TSS	T	1	2021-06-17 10:36	METHOD	2021-06-17 10:36	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10565533	749948	3999845LCS_10565533	3999845		LCS	INITIAL	TSS	T	1	2021-06-17 10:36	METHOD	2021-06-17 10:36	SM 2540D	0	100	88	10	20	mg/L	88	0	80	120	0
PACE_MPLS	10565533	749949	3999848BLANK_10565533	3999848		MB	INITIAL	TSS	T	1	2021-06-17 10:59	METHOD	2021-06-17 10:59	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10565533	749949	3999849LCS_10565533	3999849		LCS	INITIAL	TSS	T	1	2021-06-17 10:59	METHOD	2021-06-17 10:59	SM 2540D	0	100	102	10	20	mg/L	102	0	80	120	0
PACE_MPLS	10565533	749949	SWSD0111-061021DUP	3999850	SWSD0111-061021	LR	INITIAL	TSS	T	1	2021-06-17 10:59	METHOD	2021-06-17 10:59	SM 2540D	157	0	158	5	10	mg/L	0	0	0	0	5
PACE_MPLS	10565533	750248	4001558BLANK_10565533	4001558		MB	INITIAL	TSS	T	1	2021-06-18 07:22	METHOD	2021-06-18 07:22	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10565533	750248	4001559LCS_10565533	4001559		LCS	INITIAL	TSS	T	1	2021-06-18 07:22	METHOD	2021-06-18 07:22	SM 2540D	0	100	110	10	20	mg/L	110	0	80	120	0
PACE_MPLS	10565533	750249	4001562BLANK_10565533	4001562		MB	INITIAL	TSS	T	1	2021-06-18 07:34	METHOD	2021-06-18 07:34	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10565533	750249	4001563LCS_10565533	4001563		LCS	INITIAL	TSS	T	1	2021-06-18 07:34	METHOD	2021-06-18 07:34	SM 2540D	0	100	108	10	20	mg/L	108	0	80	120	0
PACE_MPLS	10565533	750249	SWSD0110-061121DUP	4001564	SWSD0110-061121	LR	INITIAL	TSS	T	1	2021-06-18 07:34	METHOD	2021-06-18 07:34	SM 2540D	44	0	50.4	5	10	mg/L	0	14	0	0	5
PACE_MPLS	10565533	750938	4005118BLANK_10565533	4005118		MB	INITIAL	TSS	T	1	2021-06-22 10:36	METHOD	2021-06-22 10:36	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10565533	750938	4005119LCS_10565533	4005119		LCS	INITIAL	TSS	T	1	2021-06-22 10:36	METHOD	2021-06-22 10:36	SM 2540D	0	100	104	10	20	mg/L	104	0	80	120	0
PACE_MPLS	10565533	751802	4008905BLANK_10565533	4008905		MB	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:30	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751802	SWSD0086-061021MS	4008907	SWSD0086-061021	MS	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:50	EPA 200.8	0.091	0.1	0.18	0.0023	0.005	mg/L	94	0	70	130	0
PACE_MPLS	10565533	751802	4008906LCS_10565533	4008906		LCS	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:33	EPA 200.8	0	0.1	0.1	0.0023	0.005	mg/L	103	0	85	115	0
PACE_MPLS	10565533	751802	SWSD0086-061021MSD	4008908	SWSD0086-061021	MSD	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 12:53	EPA 200.8	0.091	0.1	0.19	0.0023	0.005	mg/L	103	5	70	130	20
PACE_MPLS	10565533	751802	SWSD0100-061021MS	4008909	SWSD0100-061021	MS	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:07	EPA 200.8	0.051	0.1	0.15	0.0023	0.005	mg/L	99	0	70	130	0
PACE_MPLS	10565533	751802	SWSD0100-061021MSD	4008910	SWSD0100-061021	MSD	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-07-02 02:10	EPA 200.8	0.051	0.1	0.15	0.0023	0.005	mg/L	101	2	70	130	20
PACE_MPLS	10565533	751803	SWSD0102-061021MS	4008913	SWSD0102-061021	MS	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:16	EPA 200.8	0.056	0.1	0.14	0.0023	0.005	mg/L	87	0	70	130	0
PACE_MPLS	10565533	751803	SWSD0102-061021MSD	4008914	SWSD0102-061021	MSD	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:19	EPA 200.8	0.056	0.1	0.14	0.0023	0.005	mg/L	85	1	70	130	20
PACE_MPLS	10565533	751803	SWSD0112-061021MS	4008915	SWSD0112-061021	MS	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 03:07	EPA 200.8	0.018	0.1	0.12	0.0023	0.005	mg/L	100	0	70	130	0
PACE_MPLS	10565533	751803	4008912LCS_10565533	4008912		LCS	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 02:01	EPA 200.8	0	0.1	0.099	0.0023	0.005	mg/L	99	0	85	115	0
PACE_MPLS	10565533	751803	4008911BLANK_10565533	4008911		MB	INITIAL	ZnDis	D	1	2021-06-25 07:09	EPA 200.8	2021-06-30 01:57	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751805	4008923LCS_10565533	4008923		LCS	INITIAL	ZnTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:59	EPA 200.8	0	0.1	0.0954	0.0023	0.005	mg/L	95	0	85	115	0
PACE_MPLS	10565533	751805	4008922BLANK_10565533	4008922		MB	INITIAL	ZnTR	T	1	2021-06-25 07:34	EPA 200.8	2021-06-29 11:55	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10565533	751805	SWSD0086-061021MS	4008924	SWSD0086-061021	MS	INITIAL	ZnTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:18	EPA 200.8	0.376	0.1	0.489	0.0114	0.025	mg/L	113	0	70	130	0
PACE_MPLS	10565533	751805	SWSD0086-061021MSD	4008925	SWSD0086-061021	MSD	INITIAL	ZnTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 12:21	EPA 200.8	0.376	0.1	0.499	0.0114	0.025	mg/L	123	2	70	130	20
PACE_MPLS	10565533	751805	SWSD0100-061021MS	4008926	SWSD0100-061021	MS	INITIAL	ZnTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:39	EPA 200.8	0.105	0.1	0.206	0.0114	0.025	mg/L	101	0	70	130	0
PACE_MPLS	10565533	751805	SWSD0100-061021MSD	4008927	SWSD0100-061021	MSD	INITIAL	ZnTR	T	5	2021-06-25 07:34	EPA 200.8	2021-06-30 01:42	EPA 200.8	0.105	0.1	0.217	0.0114	0.025	mg/L	112	5	70	130	20
PACE_MPLS	10565533	751806	SWSD0102-061021MSD	4008931	SWSD0102-061021	MSD	INITIAL	ZnTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:50	EPA 200.8	0.16	0.1	0.272	0.0023	0.005	mg/L	112	6	70	130	20
PACE_MPLS	10565533	751806	SWSD0102-061021MS	4008930	SWSD0102-061021	MS	INITIAL	ZnTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:47	EPA 200.8	0.16	0.1	0.257	0.0023	0.005	mg/L	97	0	70	130	0
PACE_MPLS	10565533	751806	SWSD0112-061021MS	4008932	SWSD0112-061021	MS	INITIAL	ZnTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 03:37	EPA 200.8	0.177	0.1	0.274	0.0023	0.005	mg/L	98	0	70	130	0
PACE_MPLS	10565533	751806	4008929LCS_10565533	4008929		LCS	INITIAL	ZnTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:33	EPA 200.8	0	0.1	0.103	0.0023	0.005	mg/L	103	0	85	115	0
PACE_MPLS	10565533	751806	4008928BLANK_10565533	4008928		MB	INITIAL	ZnTR	T	1	2021-06-25 07:34	EPA 200.8	2021-07-02 02:30	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755294	4027573BLANK_10568970	4027573		MB	INITIAL	AsDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:46	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755294	4027574LCS_10568970	4027574		LCS	INITIAL	AsDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:49	EPA 200.8	0	0.1	0.095	0.00014	0.0005	mg/L	95	0	85	115	0
PACE_MPLS	10568970	755294	SWSD0123-070121MS	4027575	SWSD0123-070121	MS	INITIAL	AsDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:40	EPA 200.8	0.012	0.1	0.1	0.0007	0.0025	mg/L	89	0	70	130	0
PACE_MPLS	10568970	755294	SWSD0123-070121MSD	4027576	SWSD0123-070121	MSD	INITIAL	AsDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:43	EPA 200.8	0.012	0.1	0.1	0.0007	0.0025	mg/L	90	1	70	130	20
PACE_MPLS	10568970	755294	SWSD0129-070121MS	4027577	SWSD0129-070121	MS	INITIAL	AsDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 09:34	EPA 200.8	0.0056	0.1	0.096	0.0007	0.0025	mg/L	91	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0133-070121MS	4027580	SWSD0133-070121	MS	INITIAL	AsDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:04	EPA 200.8	0.013	0.1	0.11	0.0007	0.0025	mg/L	92	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0133-070121MSD	4027581	SWSD0133-070121	MSD	INITIAL	AsDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:07	EPA 200.8	0.013	0.1	0.1	0.0007	0.0025	mg/L	90	2	70	130	20
PACE_MPLS	10568970	755295	SWSD0143-070121MS	4027582	SWSD0143-070121	MS	INITIAL	AsDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 07:34	EPA 200.8	0.0088	0.1	0.1	0.0007	0.0025	mg/L	94	0	70	130	0
PACE_MPLS	10568970	755295	4027578BLANK_10568970	4027578		MB	INITIAL	AsDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:40	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755295	4027579LCS_10568970	4027579		LCS	INITIAL	AsDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:43	EPA 200.8	0	0.1	0.094	0.00014	0.0005	mg/L	94	0	85	115	0
PACE_MPLS	10568970	755299	4027595BLANK_10568970	4027595		MB	INITIAL	AsTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:23	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755299	4027596LCS_10568970	4027596		LCS	INITIAL	AsTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:20	EPA 200.8	0	0.1	0.0986	0.00014	0.0005	mg/L	99	0	85	115	0
PACE_MPLS	10568970	755299	SWSD0129-070121MS	4027599	SWSD0129-070121	MS	INITIAL	AsTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:32	EPA 200.8	0.019	0.1	0.12	0.0007	0.0025	mg/L	101	0	70	130	0
PACE_MPLS	10568970	755299	SWSD0123-070121MSD	4027598	SWSD0123-070121	MSD	INITIAL	AsTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:01	EPA 200.8	0.164	0.1	0.262	0.0007	0.0025	mg/L	98	3	70	130	20

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10568970	755299	SWSD0123-070121MS	4027597	SWSD0123-070121	MS	INITIAL	AsTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 07:57	EPA 200.8	0.164	0.1	0.255	0.0007	0.0025	mg/L	91	0	70	130	0
PACE_MPLS	10568970	755300	SWSD0133-070121MSD	4027603	SWSD0133-070121	MSD	INITIAL	AsTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:43	EPA 200.8	0.0175	0.1	0.102	0.0007	0.0025	mg/L	84	2	70	130	20
PACE_MPLS	10568970	755300	SWSD0133-070121MS	4027602	SWSD0133-070121	MS	INITIAL	AsTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:34	EPA 200.8	0.0175	0.1	0.104	0.0007	0.0025	mg/L	87	0	70	130	0
PACE_MPLS	10568970	755300	SWSD0143-070121MS	4027604	SWSD0143-070121	MS	INITIAL	AsTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 12:00	EPA 200.8	0.0442	0.1	0.133	0.0007	0.0025	mg/L	89	0	70	130	0
PACE_MPLS	10568970	755300	4027601LCS_10568970	4027601		LCS	INITIAL	AsTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:14	EPA 200.8	0	0.1	0.0904	0.00014	0.0005	mg/L	90	0	85	115	0
PACE_MPLS	10568970	755300	4027600BLANK_10568970	4027600		MB	INITIAL	AsTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:11	EPA 200.8	0	0	0.00014	0.00014	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755294	4027574LCS_10568970	4027574		LCS	INITIAL	CdDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:49	EPA 200.8	0	0.1	0.093	0.00003	0.00008	mg/L	93	0	85	115	0
PACE_MPLS	10568970	755294	4027573BLANK_10568970	4027573		MB	INITIAL	CdDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:46	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755294	SWSD0123-070121MS	4027575	SWSD0123-070121	MS	INITIAL	CdDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:40	EPA 200.8	0.00015	0.1	0.089	0.00015	0.0004	mg/L	89	0	70	130	0
PACE_MPLS	10568970	755294	SWSD0123-070121MSD	4027576	SWSD0123-070121	MSD	INITIAL	CdDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:43	EPA 200.8	0.00015	0.1	0.092	0.00015	0.0004	mg/L	92	3	70	130	20
PACE_MPLS	10568970	755294	SWSD0129-070121MS	4027577	SWSD0129-070121	MS	INITIAL	CdDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 09:34	EPA 200.8	0.00012	0.1	0.09	0.00015	0.0004	mg/L	90	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0133-070121MS	4027580	SWSD0133-070121	MS	INITIAL	CdDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:04	EPA 200.8	0.00034	0.1	0.093	0.00015	0.0004	mg/L	92	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0133-070121MSD	4027581	SWSD0133-070121	MSD	INITIAL	CdDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:07	EPA 200.8	0.00034	0.1	0.092	0.00015	0.0004	mg/L	91	1	70	130	20
PACE_MPLS	10568970	755295	SWSD0143-070121MS	4027582	SWSD0143-070121	MS	INITIAL	CdDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 07:34	EPA 200.8	0.0002	0.1	0.094	0.00015	0.0004	mg/L	93	0	70	130	0
PACE_MPLS	10568970	755295	4027579LCS_10568970	4027579		LCS	INITIAL	CdDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:43	EPA 200.8	0	0.1	0.093	0.00003	0.00008	mg/L	93	0	85	115	0
PACE_MPLS	10568970	755295	4027578BLANK_10568970	4027578		MB	INITIAL	CdDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:40	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755299	4027595BLANK_10568970	4027595		MB	INITIAL	CdTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:23	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755299	4027596LCS_10568970	4027596		LCS	INITIAL	CdTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:20	EPA 200.8	0	0.1	0.102	0.00003	0.00008	mg/L	102	0	85	115	0
PACE_MPLS	10568970	755299	SWSD0129-070121MS	4027599	SWSD0129-070121	MS	INITIAL	CdTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:32	EPA 200.8	0.00091	0.1	0.102	0.00015	0.0004	mg/L	101	0	70	130	0
PACE_MPLS	10568970	755299	SWSD0123-070121MSD	4027598	SWSD0123-070121	MSD	INITIAL	CdTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:01	EPA 200.8	0.0173	0.1	0.124	0.00015	0.0004	mg/L	107	1	70	130	20
PACE_MPLS	10568970	755299	SWSD0123-070121MS	4027597	SWSD0123-070121	MS	INITIAL	CdTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 07:57	EPA 200.8	0.0173	0.1	0.123	0.00015	0.0004	mg/L	105	0	70	130	0
PACE_MPLS	10568970	755300	SWSD0133-070121MSD	4027603	SWSD0133-070121	MSD	INITIAL	CdTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:43	EPA 200.8	0.0006	0.1	0.09	0.00015	0.0004	mg/L	89	2	70	130	20
PACE_MPLS	10568970	755300	SWSD0133-070121MS	4027602	SWSD0133-070121	MS	INITIAL	CdTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:34	EPA 200.8	0.0006	0.1	0.0915	0.00015	0.0004	mg/L	91	0	70	130	0
PACE_MPLS	10568970	755300	SWSD0143-070121MS	4027604	SWSD0143-070121	MS	INITIAL	CdTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 12:00	EPA 200.8	0.0023	0.1	0.0935	0.00015	0.0004	mg/L	91	0	70	130	0
PACE_MPLS	10568970	755300	4027600BLANK_10568970	4027600		MB	INITIAL	CdTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:11	EPA 200.8	0	0	0.00003	0.00003	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755300	4027601LCS_10568970	4027601		LCS	INITIAL	CdTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:14	EPA 200.8	0	0.1	0.0915	0.00003	0.00008	mg/L	92	0	85	115	0
PACE_MPLS	10568970	755294	4027574LCS_10568970	4027574		LCS	INITIAL	CuDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:49	EPA 200.8	0	0.1	0.099	0.00043	0.001	mg/L	99	0	85	115	0
PACE_MPLS	10568970	755294	4027573BLANK_10568970	4027573		MB	INITIAL	CuDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:46	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755294	SWSD0123-070121MS	4027575	SWSD0123-070121	MS	INITIAL	CuDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:40	EPA 200.8	0.013	0.1	0.11	0.0021	0.005	mg/L	93	0	70	130	0
PACE_MPLS	10568970	755294	SWSD0123-070121MSD	4027576	SWSD0123-070121	MSD	INITIAL	CuDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:43	EPA 200.8	0.013	0.1	0.11	0.0021	0.005	mg/L	100	6	70	130	20
PACE_MPLS	10568970	755294	SWSD0129-070121MS	4027577	SWSD0129-070121	MS	INITIAL	CuDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 09:34	EPA 200.8	0.023	0.1	0.12	0.0021	0.005	mg/L	95	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0133-070121MSD	4027581	SWSD0133-070121	MSD	INITIAL	CuDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:07	EPA 200.8	0.068	0.1	0.16	0.0021	0.005	mg/L	94	1	70	130	20
PACE_MPLS	10568970	755295	SWSD0133-070121MS	4027580	SWSD0133-070121	MS	INITIAL	CuDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:04	EPA 200.8	0.068	0.1	0.16	0.0021	0.005	mg/L	96	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0143-070121MS	4027582	SWSD0143-070121	MS	INITIAL	CuDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 07:34	EPA 200.8	0.043	0.1	0.14	0.0021	0.005	mg/L	94	0	70	130	0
PACE_MPLS	10568970	755295	4027578BLANK_10568970	4027578		MB	INITIAL	CuDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:40	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755295	4027579LCS_10568970	4027579		LCS	INITIAL	CuDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:43	EPA 200.8	0	0.1	0.099	0.00043	0.001	mg/L	99	0	85	115	0
PACE_MPLS	10568970	755299	4027596LCS_10568970	4027596		LCS	INITIAL	CuTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:20	EPA 200.8	0	0.1	0.104	0.00043	0.001	mg/L	104	0	85	115	0
PACE_MPLS	10568970	755299	4027595BLANK_10568970	4027595		MB	INITIAL	CuTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:23	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755299	SWSD0129-070121MS	4027599	SWSD0129-070121	MS	INITIAL	CuTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:32	EPA 200.8	0.287	0.1	0.38	0.0021	0.005	mg/L	93	0	70	130	0
PACE_MPLS	10568970	755299	SWSD0123-070121MSD	4027598	SWSD0123-070121	MSD	INITIAL	CuTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:01	EPA 200.8	1.76	0.1	1.78	0.0021	0.005	mg/L	25	2	70	130	20
PACE_MPLS	10568970	755299	SWSD0123-070121MS	4027597	SWSD0123-070121	MS	INITIAL	CuTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 07:57	EPA 200.8	1.76	0.1	1.75	0.0021	0.005	mg/L	0	0	70	130	0
PACE_MPLS	10568970	755300	4027601LCS_10568970	4027601		LCS	INITIAL	CuTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:14	EPA 200.8	0	0.1	0.0979	0.00043	0.001	mg/L	98	0	85	115	0
PACE_MPLS	10568970	755300	SWSD0133-070121MSD	4027603	SWSD0133-070121	MSD	INITIAL	CuTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:43	EPA 200.8	0.149	0.1	0.236	0.0021	0.005	mg/L	87	4	70	130	20
PACE_MPLS	10568970	755300	SWSD0133-070121MS	4027602	SWSD0133-070121	MS	INITIAL	CuTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:34	EPA 200.8	0.149	0.1	0.245	0.0021	0.005	mg/L	96	0	70	130	0
PACE_MPLS	10568970	755300	SWSD0143-070121MS	4027604	SWSD0143-070121	MS	INITIAL	CuTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 12:00	EPA 200.8	0.28	0.1	0.393	0.0021	0.005	mg/L	112	0	70	130	0
PACE_MPLS	10568970	755300	4027600BLANK_10568970	4027600		MB	INITIAL	CuTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:11	EPA 200.8	0	0	0.00043	0.00043	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755294	4027574LCS_10568970	4027574		LCS	INITIAL	FeDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:49	EPA 200.8	0	2	2	0.012	0.05	mg/L	98	0	85	115	0
PACE_MPLS	10568970	755294	4027573BLANK_10568970	4027573		MB	INITIAL	FeDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:46	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755294	SWSD0123-070121MS	4027575	SWSD0123-070121	MS	INITIAL	FeDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:40	EPA 200.8	0.24	2	2.1	0.06	0.25	mg/L	91	0	70	130	0
PACE_MPLS	10568970	755294	SWSD0123-070121MSD	4027576	SWSD0123-070121	MSD	INITIAL	FeDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:43	EPA 200.8	0.24	2	2.1	0.06	0.25	mg/L	94	3	70	130	20
PACE_MPLS	10568970	755294	SWSD0129-070121MS	4027577	SWSD0129-070121	MS	INITIAL	FeDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 09:34	EPA 200.8	0.18	2	2	0.06	0.25	mg/L	92	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0143-070121MS	4027582	SWSD0143-070121	MS	INITIAL	FeDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 07:34	EPA 200.8	0.072	2	2	0.06	0.25	mg/L	96	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0133-070121MS	4027580	SWSD0133-070121	MS	INITIAL	FeDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:04	EPA 200.8	0.076	2	2	0.06	0.25	mg/L	96	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0133-070121MSD	4027581	SWSD0133-070121	MSD	INITIAL	FeDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:07	EPA 200.8	0.076	2	1.9	0.06	0.25	mg/L	94	2	70	130	20
PACE_MPLS	10568970	755295	4027578BLANK_10568970	4027578		MB	INITIAL	FeDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:40	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755295	4027579LCS_10568970	4027579		LCS	INITIAL	FeDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:43	EPA 200.8	0	2	2	0.012	0.05	mg/L	100	0	85	115	0
PACE_MPLS	10568970	755299	4027595BLANK_10568970	4027595		MB	INITIAL	FeTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:23	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755299	4027596LCS_10568970	4027596		LCS	INITIAL	FeTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:20	EPA 200.8	0	2	2.02	0.012	0.05	mg/L	101	0	85	115	0
PACE_MPLS	10568970	755299	SWSD0129-070121MS	4027599	SWSD0129-070121	MS	INITIAL	FeTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:32	EPA 200.8	11.9	2	14.5	0.06	0.25	mg/L	134	0	70	130	0
PACE_MPLS	10568970	755299	SWSD0123-070121MSD	4027598	SWSD0123-070121	MSD	INITIAL	FeTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:01	EPA 200.8	98.5	2	96.1	0.06	0.25	mg/L	0	4	70	130	20

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10568970	755299	SWSD0123-070121MS	4027597	SWSD0123-070121	MS	INITIAL	FeTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 07:57	EPA 200.8	98.5	2	92.1	0.06	0.25	mg/L	0	0	70	130	0
PACE_MPLS	10568970	755300	4027601LCS_10568970	4027601		LCS	INITIAL	FeTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:14	EPA 200.8	0	2	1.96	0.012	0.05	mg/L	98	0	85	115	0
PACE_MPLS	10568970	755300	SWSD0133-070121MSD	4027603	SWSD0133-070121	MSD	INITIAL	FeTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:43	EPA 200.8	2.63	2	4.6	0.06	0.25	mg/L	99	1	70	130	20
PACE_MPLS	10568970	755300	SWSD0133-070121MS	4027602	SWSD0133-070121	MS	INITIAL	FeTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:34	EPA 200.8	2.63	2	4.55	0.06	0.25	mg/L	96	0	70	130	0
PACE_MPLS	10568970	755300	SWSD0143-070121MS	4027604	SWSD0143-070121	MS	INITIAL	FeTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 12:00	EPA 200.8	27.4	2	31.2	0.06	0.25	mg/L	186	0	70	130	0
PACE_MPLS	10568970	755300	4027600BLANK_10568970	4027600		MB	INITIAL	FeTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:11	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755323	SWSD0123-070121MS	4027694	SWSD0123-070121	MS	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 04:15	EPA 245.1	0.000026	0.005	0.0054	0.000045	0.0002	mg/L	108	0	70	130	0
PACE_MPLS	10568970	755323	4027692BLANK_10568970	4027692		MB	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 04:05	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755323	4027693LCS_10568970	4027693		LCS	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 04:07	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
PACE_MPLS	10568970	755323	SWSD0123-070121MSD	4027695	SWSD0123-070121	MSD	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 04:17	EPA 245.1	0.000026	0.005	0.0053	0.000045	0.0002	mg/L	106	3	70	130	20
PACE_MPLS	10568970	755323	SWSD0130-070121MS	4027696	SWSD0130-070121	MS	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 04:31	EPA 245.1	0.000025	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10568970	755324	4027697BLANK_10568970	4027697		MB	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:03	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755324	4027698LCS_10568970	4027698		LCS	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:04	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	105	0	85	115	0
PACE_MPLS	10568970	755324	SWSD0133-070121MS	4027699	SWSD0133-070121	MS	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:07	EPA 245.1	0.000019	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
PACE_MPLS	10568970	755324	SWSD0133-070121MSD	4027700	SWSD0133-070121	MSD	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:09	EPA 245.1	0.000019	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	20
PACE_MPLS	10568970	755324	SWSD0142-070721MS	4027701	SWSD0142-070721	MS	INITIAL	HgDis	D	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:26	EPA 245.1	0.000006	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
PACE_MPLS	10568970	755326	4027706BLANK_10568970	4027706		MB	INITIAL	HgTR	T	1	2021-07-13 07:01	EPA 245.1	2021-07-21 04:40	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755326	4027707LCS_10568970	4027707		LCS	INITIAL	HgTR	T	1	2021-07-13 07:01	EPA 245.1	2021-07-21 04:41	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	101	0	85	115	0
PACE_MPLS	10568970	755326	SWSD0123-070121MS	4027708	SWSD0123-070121	MS	INITIAL	HgTR	T	1	2021-07-13 07:01	EPA 245.1	2021-07-21 04:50	EPA 245.1	0.0019	0.005	0.005	0.000045	0.0002	mg/L	63	0	70	130	0
PACE_MPLS	10568970	755326	SWSD0130-070121MS	4027710	SWSD0130-070121	MS	INITIAL	HgTR	T	1	2021-07-13 07:01	EPA 245.1	2021-07-21 05:06	EPA 245.1	0.000072	0.005	0.0052	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10568970	755326	SWSD0123-070121MSD	4027709	SWSD0123-070121	MSD	INITIAL	HgTR	T	1	2021-07-13 07:01	EPA 245.1	2021-07-21 04:52	EPA 245.1	0.0019	0.005	0.0052	0.000045	0.0002	mg/L	67	3	70	130	20
PACE_MPLS	10568970	755327	4027711BLANK_10568970	4027711		MB	INITIAL	HgTR	T	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:33	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755327	4027712LCS_10568970	4027712		LCS	INITIAL	HgTR	T	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:35	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	85	115	0
PACE_MPLS	10568970	755327	SWSD0133-070121MSD	4027714	SWSD0133-070121	MSD	INITIAL	HgTR	T	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:39	EPA 245.1	0.000062	0.005	0.0052	0.000045	0.0002	mg/L	104	6	70	130	20
PACE_MPLS	10568970	755327	SWSD0133-070121MS	4027713	SWSD0133-070121	MS	INITIAL	HgTR	T	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:38	EPA 245.1	0.000062	0.005	0.0056	0.000045	0.0002	mg/L	111	0	70	130	0
PACE_MPLS	10568970	755327	SWSD0144-070121MS	4027715	SWSD0144-070121	MS	INITIAL	HgTR	T	1	2021-07-12 01:24	EPA 245.1	2021-07-21 03:59	EPA 245.1	0.00016	0.015	0.015	0.00013	0.0006	mg/L	97	0	70	130	0
PACE_MPLS	10568970	755294	SWSD0123-070121MS	4027575	SWSD0123-070121	MS	INITIAL	PbDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:40	EPA 200.8	0.0071	0.1	0.097	0.00022	0.0005	mg/L	90	0	70	130	0
PACE_MPLS	10568970	755294	SWSD0129-070121MS	4027577	SWSD0129-070121	MS	INITIAL	PbDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 09:34	EPA 200.8	0.0014	0.1	0.093	0.00022	0.0005	mg/L	91	0	70	130	0
PACE_MPLS	10568970	755294	SWSD0123-070121MSD	4027576	SWSD0123-070121	MSD	INITIAL	PbDis	D	5	2021-07-12 01:26	EPA 200.8	2021-07-15 08:43	EPA 200.8	0.0071	0.1	0.098	0.00022	0.0005	mg/L	91	1	70	130	20
PACE_MPLS	10568970	755294	4027573BLANK_10568970	4027573		MB	INITIAL	PbDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:46	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755294	4027574LCS_10568970	4027574		LCS	INITIAL	PbDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-15 07:49	EPA 200.8	0	0.1	0.097	0.000043	0.0001	mg/L	97	0	85	115	0
PACE_MPLS	10568970	755295	4027579LCS_10568970	4027579		LCS	INITIAL	PbDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:43	EPA 200.8	0	0.1	0.096	0.000043	0.0001	mg/L	96	0	85	115	0
PACE_MPLS	10568970	755295	4027578BLANK_10568970	4027578		MB	INITIAL	PbDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-15 05:40	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755295	SWSD0133-070121MS	4027580	SWSD0133-070121	MS	INITIAL	PbDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:04	EPA 200.8	0.0011	0.1	0.093	0.00022	0.0005	mg/L	92	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0143-070121MS	4027582	SWSD0143-070121	MS	INITIAL	PbDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 07:34	EPA 200.8	0.00076	0.1	0.091	0.00022	0.0005	mg/L	91	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0133-070121MSD	4027581	SWSD0133-070121	MSD	INITIAL	PbDis	D	5	2021-07-12 02:02	EPA 200.8	2021-07-15 06:07	EPA 200.8	0.0011	0.1	0.093	0.00022	0.0005	mg/L	92	1	70	130	20
PACE_MPLS	10568970	755299	SWSD0129-070121MS	4027599	SWSD0129-070121	MS	INITIAL	PbTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:32	EPA 200.8	0.0864	0.1	0.189	0.00022	0.0005	mg/L	102	0	70	130	0
PACE_MPLS	10568970	755299	SWSD0123-070121MSD	4027598	SWSD0123-070121	MSD	INITIAL	PbTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:01	EPA 200.8	2.23	0.1	2.29	0.00022	0.0005	mg/L	53	1	70	130	20
PACE_MPLS	10568970	755299	SWSD0123-070121MS	4027597	SWSD0123-070121	MS	INITIAL	PbTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 07:57	EPA 200.8	2.23	0.1	2.27	0.00022	0.0005	mg/L	37	0	70	130	0
PACE_MPLS	10568970	755299	4027595BLANK_10568970	4027595		MB	INITIAL	PbTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:23	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755299	4027596LCS_10568970	4027596		LCS	INITIAL	PbTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:20	EPA 200.8	0	0.1	0.105	0.000043	0.0001	mg/L	105	0	85	115	0
PACE_MPLS	10568970	755300	4027600BLANK_10568970	4027600		MB	INITIAL	PbTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:11	EPA 200.8	0	0	0.000043	0.000043	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755300	4027601LCS_10568970	4027601		LCS	INITIAL	PbTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:14	EPA 200.8	0	0.1	0.0944	0.000043	0.0001	mg/L	94	0	85	115	0
PACE_MPLS	10568970	755300	SWSD0133-070121MSD	4027603	SWSD0133-070121	MSD	INITIAL	PbTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:43	EPA 200.8	0.0296	0.1	0.116	0.00022	0.0005	mg/L	86	3	70	130	20
PACE_MPLS	10568970	755300	SWSD0133-070121MS	4027602	SWSD0133-070121	MS	INITIAL	PbTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:34	EPA 200.8	0.0296	0.1	0.119	0.00022	0.0005	mg/L	90	0	70	130	0
PACE_MPLS	10568970	755300	SWSD0143-070121MS	4027604	SWSD0143-070121	MS	INITIAL	PbTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 12:00	EPA 200.8	0.191	0.1	0.285	0.00022	0.0005	mg/L	94	0	70	130	0
PACE_MPLS	10568970	757085	SWSD0123-070121MSD	4037144	SWSD0123-070121	MSD	INITIAL	SO4	T	5	2021-07-19 02:11	METHOD	2021-07-19 02:11	ASTM D516-90-02	31.4	100	133	6	12.5	mg/L	102	9	80	120	30
PACE_MPLS	10568970	757085	4037138BLANK_10568970	4037138		MB	INITIAL	SO4	T	1	2021-07-19 01:59	METHOD	2021-07-19 01:59	ASTM D516-90-02	0	0	2.5	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10568970	757085	4037139LCS_10568970	4037139		LCS	INITIAL	SO4	T	1	2021-07-19 02:00	METHOD	2021-07-19 02:00	ASTM D516-90-02	0	20	17.9	1.2	2.5	mg/L	90	0	80	120	0
PACE_MPLS	10568970	757085	4037140LCSD_10568970	4037140	4037139LCS_10568970	LCSD	INITIAL	SO4	T	1	2021-07-19 02:00	METHOD	2021-07-19 02:00	ASTM D516-90-02	0	20	17.7	1.2	2.5	mg/L	88	1	80	120	20
PACE_MPLS	10568970	757085	SWSD0123-070121MS	4037143	SWSD0123-070121	MS	INITIAL	SO4	T	5	2021-07-19 02:11	METHOD	2021-07-19 02:11	ASTM D516-90-02	31.4	100	146	6	12.5	mg/L	115	0	80	120	0
PACE_MPLS	10568970	757107	SWSD0133-070121MS	4037230	SWSD0133-070121	MS	INITIAL	SO4	T	5	2021-07-19 08:09	METHOD	2021-07-19 08:09	ASTM D516-90-02	50.3	100	139	6	12.5	mg/L	89	0	80	120	0
PACE_MPLS	10568970	757107	SWSD0131-070121MS	4037228	SWSD0131-070121	MS	INITIAL	SO4	T	10	2021-07-19 04:06	METHOD	2021-07-19 04:06	ASTM D516-90-02	108	40	164	12.1	25	mg/L	140	0	80	120	0
PACE_MPLS	10568970	757107	SWSD0131-070121MSD	4037229	SWSD0131-070121	MSD	INITIAL	SO4	T	10	2021-07-19 04:07	METHOD	2021-07-19 04:07	ASTM D516-90-02	108	40	149	12.1	25	mg/L	102	10	80	120	30
PACE_MPLS	10568970	757107	4037225BLANK_10568970	4037225		MB	INITIAL	SO4	T	1	2021-07-19 04:25	METHOD	2021-07-19 04:25	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10568970	757107	4037226LCS_10568970	4037226		LCS	INITIAL	SO4	T	1	2021-07-19 04:26	METHOD	2021-07-19 04:26	ASTM D516-90-02	0	20	19.4	1.2	2.5	mg/L	97	0	80	120	0
PACE_MPLS	10568970	757107	4037227LCSD_10568970	4037227	4037226LCS_10568970	LCSD	INITIAL	SO4	T	1	2021-07-19 04:26	METHOD	2021-07-19 04:26	ASTM D516-90-02	0	20	19.3	1.2	2.5	mg/L	96	1	80	120	20
PACE_MPLS	10568970	757107	SWSD0133-070121MSD	4037231	SWSD0133-070121	MSD	INITIAL	SO4	T	5	2021-07-19 08:09	METHOD	2021-07-19 08:09	ASTM D516-90-02	50.3	100	134	6	12.5	mg/L	84	4	80	120	30
PACE_MPLS	10568970	757775	4040922BLANK_10568970	4040922		MB	INITIAL	SO4	T	1	2021-07-21 07:01	METHOD	2021-07-21 07:01	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10568970	757775	4040923LCS_10568970	4040923		LCS	INITIAL	SO4	T	1	2021-07-21 07:02	METHOD	2021-07-21 07:02	ASTM D516-90-02	0	20	19	1.2	2.5	mg/L	95	0	80	120	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10568970	757775	4040924LCSD_10568970	4040924	4040923LCS_10568970	LCSD	INITIAL	SO4	T	1	2021-07-21 07:02	METHOD	2021-07-21 07:02	ASTM D516-90-02	0	20	18.7	1.2	2.5	mg/L	94	1	80	120	20
PACE_MPLS	10568970	757977	4042092BLANK_10568970	4042092		MB	INITIAL	SO4	T	1	2021-07-21 07:17	METHOD	2021-07-21 07:17	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10568970	757977	4042093LCS_10568970	4042093		LCS	INITIAL	SO4	T	1	2021-07-21 07:18	METHOD	2021-07-21 07:18	ASTM D516-90-02	0	20	18.5	1.2	2.5	mg/L	93	0	80	120	0
PACE_MPLS	10568970	757977	4042094LCSD_10568970	4042094	4042093LCS_10568970	LCSD	INITIAL	SO4	T	1	2021-07-21 07:18	METHOD	2021-07-21 07:18	ASTM D516-90-02	0	20	18.9	1.2	2.5	mg/L	95	2	80	120	20
PACE_MPLS	10568970	757977	SWSD0119-070121MS	4042095	SWSD0119-070121	MS	INITIAL	SO4	T	5	2021-07-21 07:58	METHOD	2021-07-21 07:58	ASTM D516-90-02	20.5	20	48.4	6	12.5	mg/L	140	0	80	120	0
PACE_MPLS	10568970	757977	SWSD0119-070121MSD	4042096	SWSD0119-070121	MSD	INITIAL	SO4	T	5	2021-07-21 07:58	METHOD	2021-07-21 07:58	ASTM D516-90-02	20.5	20	47.1	6	12.5	mg/L	133	3	80	120	30
PACE_MPLS	10568970	754659	4024236BLANK_10568970	4024236		MB	INITIAL	TSS	T	1	2021-07-08 04:05	METHOD	2021-07-08 04:05	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10568970	754659	4024237LCS_10568970	4024237		LCS	INITIAL	TSS	T	1	2021-07-08 04:05	METHOD	2021-07-08 04:05	SM 2540D	0	100	82	10	20	mg/L	82	0	80	120	0
PACE_MPLS	10568970	754875	4025134BLANK_10568970	4025134		MB	INITIAL	TSS	T	1	2021-07-08 04:44	METHOD	2021-07-08 04:44	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10568970	754875	4025135LCS_10568970	4025135		LCS	INITIAL	TSS	T	1	2021-07-08 04:44	METHOD	2021-07-08 04:44	SM 2540D	0	100	88.4	10	20	mg/L	88	0	80	120	0
PACE_MPLS	10568970	754875	SWSD0123-070121DUP	4025136	SWSD0123-070121	LR	INITIAL	TSS	T	1	2021-07-08 04:44	METHOD	2021-07-08 04:44	SM 2540D	3970	0	3730	12.5	25	mg/L	0	6	0	0	5
PACE_MPLS	10568970	754875	SWSD0133-070121DUP	4025137	SWSD0133-070121	LR	INITIAL	TSS	T	1	2021-07-08 04:44	METHOD	2021-07-08 04:44	SM 2540D	63.4	0	65.4	5	10	mg/L	0	3	0	0	5
PACE_MPLS	10568970	755892	4030386BLANK_10568970	4030386		MB	INITIAL	TSS	T	1	2021-07-13 06:00	METHOD	2021-07-13 06:00	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755892	4030387LCS_10568970	4030387		LCS	INITIAL	TSS	T	1	2021-07-13 06:00	METHOD	2021-07-13 06:00	SM 2540D	0	100	102	10	20	mg/L	102	0	80	120	0
PACE_MPLS	10568970	755294	SWSD0123-070121MS	4027575	SWSD0123-070121	MS	DILUTION	ZnDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-20 12:12	EPA 200.8	0.06	0.1	0.15	0.002	0.005	mg/L	94	0	70	130	0
PACE_MPLS	10568970	755294	SWSD0129-070121MS	4027577	SWSD0129-070121	MS	DILUTION	ZnDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-20 12:44	EPA 200.8	0.045	0.1	0.14	0.002	0.005	mg/L	93	0	70	130	0
PACE_MPLS	10568970	755294	SWSD0123-070121MSD	4027576	SWSD0123-070121	MSD	DILUTION	ZnDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-20 12:15	EPA 200.8	0.06	0.1	0.16	0.002	0.005	mg/L	97	2	70	130	20
PACE_MPLS	10568970	755294	4027574LCS_10568970	4027574		LCS	REANALYSIS	ZnDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-20 11:18	EPA 200.8	0	0.1	0.094	0.002	0.005	mg/L	94	0	85	115	0
PACE_MPLS	10568970	755294	4027573BLANK_10568970	4027573		MB	REANALYSIS	ZnDis	D	1	2021-07-12 01:26	EPA 200.8	2021-07-20 11:15	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755295	4027579LCS_10568970	4027579		LCS	REANALYSIS	ZnDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-16 08:47	EPA 200.8	0	0.1	0.093	0.0023	0.005	mg/L	93	0	85	115	0
PACE_MPLS	10568970	755295	4027578BLANK_10568970	4027578		MB	REANALYSIS	ZnDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-16 08:44	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755295	SWSD0133-070121MSD	4027581	SWSD0133-070121	MSD	DILUTION	ZnDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-16 09:02	EPA 200.8	0.054	0.1	0.14	0.0023	0.005	mg/L	88	1	70	130	20
PACE_MPLS	10568970	755295	SWSD0133-070121MS	4027580	SWSD0133-070121	MS	DILUTION	ZnDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-16 08:59	EPA 200.8	0.054	0.1	0.14	0.0023	0.005	mg/L	90	0	70	130	0
PACE_MPLS	10568970	755295	SWSD0143-070121MS	4027582	SWSD0143-070121	MS	DILUTION	ZnDis	D	1	2021-07-12 02:02	EPA 200.8	2021-07-16 09:40	EPA 200.8	0.052	0.1	0.15	0.0023	0.005	mg/L	94	0	70	130	0
PACE_MPLS	10568970	755299	SWSD0123-070121MSD	4027598	SWSD0123-070121	MSD	INITIAL	ZnTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:01	EPA 200.8	6.77	0.1	6.4	0.0114	0.025	mg/L	0	0	70	130	20
PACE_MPLS	10568970	755299	SWSD0129-070121MS	4027599	SWSD0129-070121	MS	INITIAL	ZnTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 08:32	EPA 200.8	0.371	0.1	0.461	0.0114	0.025	mg/L	90	0	70	130	0
PACE_MPLS	10568970	755299	SWSD0123-070121MS	4027597	SWSD0123-070121	MS	INITIAL	ZnTR	T	5	2021-07-12 02:50	EPA 200.8	2021-07-16 07:57	EPA 200.8	6.77	0.1	6.43	0.0114	0.025	mg/L	0	0	70	130	0
PACE_MPLS	10568970	755299	4027595BLANK_10568970	4027595		MB	INITIAL	ZnTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:23	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755299	4027596LCS_10568970	4027596		LCS	INITIAL	ZnTR	T	1	2021-07-12 02:50	EPA 200.8	2021-07-16 07:20	EPA 200.8	0	0.1	0.101	0.0023	0.005	mg/L	101	0	85	115	0
PACE_MPLS	10568970	755300	4027601LCS_10568970	4027601		LCS	INITIAL	ZnTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:14	EPA 200.8	0	0.1	0.0933	0.0023	0.005	mg/L	93	0	85	115	0
PACE_MPLS	10568970	755300	4027600BLANK_10568970	4027600		MB	INITIAL	ZnTR	T	1	2021-07-12 02:02	EPA 200.8	2021-07-16 10:11	EPA 200.8	0	0	0.0023	0.0023	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10568970	755300	SWSD0133-070121MSD	4027603	SWSD0133-070121	MSD	INITIAL	ZnTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:43	EPA 200.8	0.152	0.1	0.233	0.0114	0.025	mg/L	81	1	70	130	20
PACE_MPLS	10568970	755300	SWSD0133-070121MS	4027602	SWSD0133-070121	MS	INITIAL	ZnTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 10:34	EPA 200.8	0.152	0.1	0.237	0.0114	0.025	mg/L	84	0	70	130	0
PACE_MPLS	10568970	755300	SWSD0143-070121MS	4027604	SWSD0143-070121	MS	INITIAL	ZnTR	T	5	2021-07-12 02:02	EPA 200.8	2021-07-16 12:00	EPA 200.8	0.71	0.1	0.832	0.0114	0.025	mg/L	122	0	70	130	0
PACE_MPLS	10571347	758725	4045960BLANK_10571347	4045960		MB	INITIAL	AsTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:02	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10571347	758725	4045961LCS_10571347	4045961		LCS	INITIAL	AsTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:06	EPA 200.8	0	0.1	0.108	0.000083	0.0005	mg/L	108	0	85	115	0
PACE_MPLS	10571347	758725	SWSD0145-072021MS	4045962	SWSD0145-072021	MS	INITIAL	AsTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:19	EPA 200.8	0.0678	0.1	0.168	0.00041	0.0025	mg/L	100	0	70	130	0
PACE_MPLS	10571347	758725	SWSD0145-072021MSD	4045963	SWSD0145-072021	MSD	INITIAL	AsTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:22	EPA 200.8	0.0678	0.1	0.162	0.00041	0.0025	mg/L	94	4	70	130	20
PACE_MPLS	10571347	758725	SWSD0145-072021MSD	4045963	SWSD0145-072021	MSD	INITIAL	CdTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:22	EPA 200.8	0.0075	0.1	0.105	0.00008	0.0004	mg/L	97	5	70	130	20
PACE_MPLS	10571347	758725	SWSD0145-072021MS	4045962	SWSD0145-072021	MS	INITIAL	CdTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:19	EPA 200.8	0.0075	0.1	0.111	0.00008	0.0004	mg/L	103	0	70	130	0
PACE_MPLS	10571347	758725	4045961LCS_10571347	4045961		LCS	INITIAL	CdTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:06	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	110	0	85	115	0
PACE_MPLS	10571347	758725	4045960BLANK_10571347	4045960		MB	INITIAL	CdTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:02	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10571347	758725	4045960BLANK_10571347	4045960		MB	INITIAL	CuTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:02	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10571347	758725	4045961LCS_10571347	4045961		LCS	INITIAL	CuTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:06	EPA 200.8	0	0.1	0.113	0.0005	0.001	mg/L	113	0	85	115	0
PACE_MPLS	10571347	758725	SWSD0145-072021MS	4045962	SWSD0145-072021	MS	INITIAL	CuTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:19	EPA 200.8	0.811	0.1	0.91	0.0025	0.005	mg/L	98	0	70	130	0
PACE_MPLS	10571347	758725	SWSD0145-072021MSD	4045963	SWSD0145-072021	MSD	INITIAL	CuTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:22	EPA 200.8	0.811	0.1	0.898	0.0025	0.005	mg/L	86	1	70	130	20
PACE_MPLS	10571347	758725	SWSD0145-072021MS	4045962	SWSD0145-072021	MS	INITIAL	FeTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:19	EPA 200.8	39.3	2	41.7	0.0605	0.25	mg/L	118	0	70	130	0
PACE_MPLS	10571347	758725	SWSD0145-072021MSD	4045963	SWSD0145-072021	MSD	INITIAL	FeTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:22	EPA 200.8	39.3	2	41.6	0.0605	0.25	mg/L	116	0	70	130	20
PACE_MPLS	10571347	758725	4045961LCS_10571347	4045961		LCS	INITIAL	FeTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:06	EPA 200.8	0	2	2.16	0.0121	0.05	mg/L	108	0	85	115	0
PACE_MPLS	10571347	758725	4045960BLANK_10571347	4045960		MB	INITIAL	FeTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:02	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10571347	758733	4045994BLANK_10571347	4045994		MB	INITIAL	HgTR	T	1	2021-07-26 03:14	EPA 245.1	2021-07-27 07:27	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10571347	758733	4045995LCS_10571347	4045995		LCS	INITIAL	HgTR	T	1	2021-07-26 03:14	EPA 245.1	2021-07-27 07:28	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	105	0	85	115	0
PACE_MPLS	10571347	758733	SWSD0145-072021MS	4045996	SWSD0145-072021	MS	INITIAL	HgTR	T	1	2021-07-26 03:14	EPA 245.1	2021-07-27 07:31	EPA 245.1	0.0005	0.005	0.0048	0.000045	0.0002	mg/L	85	0	70	130	0
PACE_MPLS	10571347	758733	SWSD0145-072021MSD	4045997	SWSD0145-072021	MSD	INITIAL	HgTR	T	1	2021-07-26 03:14	EPA 245.1	2021-07-27 07:32	EPA 245.1	0.0005	0.005	0.0051	0.000045	0.0002	mg/L	91	6	70	130	20
PACE_MPLS	10571347	758725	SWSD0145-072021MSD	4045963	SWSD0145-072021	MSD	INITIAL	PbTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:22	EPA 200.8	0.86	0.1	0.927	0.00014	0.0005	mg/L	68	3	70	130	20
PACE_MPLS	10571347	758725	SWSD0145-072021MS	4045962	SWSD0145-072021	MS	INITIAL	PbTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:19	EPA 200.8	0.86	0.1	0.957	0.00014	0.0005	mg/L	97	0	70	130	0
PACE_MPLS	10571347	758725	4045960BLANK_10571347	4045960		MB	INITIAL	PbTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:02	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10571347	758725	4045961LCS_10571347	4045961		LCS	INITIAL	PbTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:06	EPA 200.8	0	0.1	0.113	0.000028	0.0001	mg/L	113	0	85	115	0
PACE_MPLS	10571347	758725	4045961LCS_10571347	4045961		LCS	INITIAL	ZnTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:06	EPA 200.8	0	0.1	0.113	0.002	0.005	mg/L	113	0	85	115	0
PACE_MPLS	10571347	758725	4045960BLANK_10571347	4045960		MB	INITIAL	ZnTR	T	1	2021-07-26 01:24	EPA 200.8	2021-08-03 06:02	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10571347	758725	SWSD0145-072021MS	4045962	SWSD0145-072021	MS	INITIAL	ZnTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:19	EPA 200.8	3.22	0.1	3.3	0.0098	0.025	mg/L	83	0	70	130	0
PACE_MPLS	10571347	758725	SWSD0145-072021MSD	4045963	SWSD0145-072021	MSD	INITIAL	ZnTR	T	5	2021-07-26 01:24	EPA 200.8	2021-08-03 06:22	EPA 200.8	3.22	0.1	3.19	0.0098	0.025	mg/L	0	3	70	130	20
PACE_MPLS	10573163	761990	4062973BLANK_10573163	4062973		MB	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:05	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761990	4062974LCS_10573163	4062974		LCS	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:08	EPA 200.8	0	0.1	0.089	0.000083	0.0005	mg/L	89	0	85	115	0
PACE_MPLS	10573163	761990	SWSD0154-080121MS	4062975	SWSD0154-080121	MS	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:31	EPA 200.8	0.0048	0.1	0.11	0.000083	0.0005	mg/L	109	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0154-080121MSD	4062976	SWSD0154-080121	MSD	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:35	EPA 200.8	0.0048	0.1	0.1	0.000083	0.0005	mg/L	100	8	70	130	20
PACE_MPLS	10573163	761990	SWSD0160-080121MS	4062977	SWSD0160-080121	MS	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 09:28	EPA 200.8	0.015	0.1	0.12	0.000083	0.0005	mg/L	103	0	70	130	0
PACE_MPLS	10573163	761991	SWSD0167-080121MS	4062980	SWSD0167-080121	MS	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:15	EPA 200.8	0.0053	0.1	0.1	0.000083	0.0005	mg/L	99	0	70	130	0
PACE_MPLS	10573163	761991	SWSD0167-080121MSD	4062981	SWSD0167-080121	MSD	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:18	EPA 200.8	0.0053	0.1	0.1	0.000083	0.0005	mg/L	99	1	70	130	20
PACE_MPLS	10573163	761991	SWSD0177-080121MS	4062982	SWSD0177-080121	MS	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 01:05	EPA 200.8	0.02	0.1	0.12	0.000083	0.0005	mg/L	98	0	70	130	0
PACE_MPLS	10573163	761991	4062978BLANK_10573163	4062978		MB	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 11:58	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761991	4062979LCS_10573163	4062979		LCS	INITIAL	AsDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:02	EPA 200.8	0	0.1	0.099	0.000083	0.0005	mg/L	99	0	85	115	0
PACE_MPLS	10573163	761992	4062983BLANK_10573163	4062983		MB	INITIAL	AsDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:34	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761992	4062984LCS_10573163	4062984		LCS	INITIAL	AsDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:24	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	103	0	85	115	0
PACE_MPLS	10573163	761992	SWSD0184-080121MS	4062985	SWSD0184-080121	MS	INITIAL	AsDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:48	EPA 200.8	0.011	0.1	0.11	0.000083	0.0005	mg/L	102	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0184-080121MSD	4062986	SWSD0184-080121	MSD	INITIAL	AsDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:51	EPA 200.8	0.011	0.1	0.11	0.000083	0.0005	mg/L	100	2	70	130	20
PACE_MPLS	10573163	761992	SWSD0194-080321MS	4062987	SWSD0194-080321	MS	INITIAL	AsDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 02:35	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	103	0	70	130	0
PACE_MPLS	10573163	762131	SWSD0160-080121MS	4063453	SWSD0160-080121	MS	INITIAL	AsTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:53	EPA 200.8	0.106	0.1	0.19	0.00041	0.0025	mg/L	84	0	70	130	0
PACE_MPLS	10573163	762131	4063449BLANK_10573163	4063449		MB	INITIAL	AsTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:54	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762131	4063450LCS_10573163	4063450		LCS	INITIAL	AsTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:57	EPA 200.8	0	0.1	0.0927	0.000083	0.0005	mg/L	93	0	85	115	0
PACE_MPLS	10573163	762131	SWSD0154-080121MSD	4063452	SWSD0154-080121	MSD	INITIAL	AsTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:31	EPA 200.8	0.017	0.1	0.0987	0.00041	0.0025	mg/L	82	2	70	130	20
PACE_MPLS	10573163	762131	SWSD0154-080121MS	4063451	SWSD0154-080121	MS	INITIAL	AsTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:22	EPA 200.8	0.017	0.1	0.1	0.00041	0.0025	mg/L	83	0	70	130	0
PACE_MPLS	10573163	762132	4063464BLANK_10573163	4063464		MB	INITIAL	AsTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 11:29	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762132	4063465LCS_10573163	4063465		LCS	INITIAL	AsTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 11:32	EPA 200.8	0	0.1	0.0992	0.000083	0.0005	mg/L	99	0	85	115	0
PACE_MPLS	10573163	762132	SWSD0167-080121MS	4063466	SWSD0167-080121	MS	INITIAL	AsTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 11:44	EPA 200.8	0.0139	0.1	0.106	0.00041	0.0025	mg/L	92	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0167-080121MSD	4063467	SWSD0167-080121	MSD	INITIAL	AsTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 11:48	EPA 200.8	0.0139	0.1	0.105	0.00041	0.0025	mg/L	91	1	70	130	20
PACE_MPLS	10573163	762132	SWSD0177-080121MS	4063468	SWSD0177-080121	MS	INITIAL	AsTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-17 12:28	EPA 200.8	0.0568	0.1	0.139	0.00041	0.0025	mg/L	82	0	70	130	0
PACE_MPLS	10573163	762133	SWSD0194-080321MS	4063473	SWSD0194-080321	MS	INITIAL	AsTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 11:15	EPA 200.8	0.000019	0.1	0.0973	0.000083	0.0005	mg/L	97	0	70	130	0
PACE_MPLS	10573163	762133	SWSD0184-080121MSD	4063472	SWSD0184-080121	MSD	INITIAL	AsTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:28	EPA 200.8	0.0151	0.1	0.114	0.000083	0.0005	mg/L	99	2	70	130	20
PACE_MPLS	10573163	762133	SWSD0184-080121MS	4063471	SWSD0184-080121	MS	INITIAL	AsTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:25	EPA 200.8	0.0151	0.1	0.112	0.000083	0.0005	mg/L	97	0	70	130	0
PACE_MPLS	10573163	762133	4063469BLANK_10573163	4063469		MB	INITIAL	AsTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:08	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762133	4063470LCS_10573163	4063470		LCS	INITIAL	AsTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:11	EPA 200.8	0	0.1	0.0958	0.000083	0.0005	mg/L	96	0	85	115	0
PACE_MPLS	10573163	764616	4075759BLANK_10573163	4075759		MB	INITIAL	AsTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:00	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	764616	4075760LCS_10573163	4075760		LCS	INITIAL	AsTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:03	EPA 200.8	0	0.1	0.101	0.000083	0.0005	mg/L	101	0	85	115	0
PACE_MPLS	10573163	764616	SWSD0174-080321MSD	4075762	SWSD0174-080321	MSD	INITIAL	AsTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:18	EPA 200.8	0	0.1	0.102	0.000083	0.0005	mg/L	102	4	70	130	20
PACE_MPLS	10573163	764616	SWSD0174-080321MS	4075761	SWSD0174-080321	MS	INITIAL	AsTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:15	EPA 200.8	0	0.1	0.0975	0.000083	0.0005	mg/L	98	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0154-080121MS	4062975	SWSD0154-080121	MS	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:31	EPA 200.8	0.000097	0.1	0.1	0.000016	0.00008	mg/L	104	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0154-080121MSD	4062976	SWSD0154-080121	MSD	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:35	EPA 200.8	0.000097	0.1	0.1	0.000016	0.00008	mg/L	103	1	70	130	20
PACE_MPLS	10573163	761990	SWSD0160-080121MS	4062977	SWSD0160-080121	MS	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 09:28	EPA 200.8	0.00011	0.1	0.11	0.000016	0.00008	mg/L	105	0	70	130	0
PACE_MPLS	10573163	761990	4062974LCS_10573163	4062974		LCS	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:08	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	103	0	85	115	0
PACE_MPLS	10573163	761990	4062973BLANK_10573163	4062973		MB	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:05	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761991	4062979LCS_10573163	4062979		LCS	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:02	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	102	0	85	115	0
PACE_MPLS	10573163	761991	4062978BLANK_10573163	4062978		MB	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 11:58	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761991	SWSD0167-080121MSD	4062981	SWSD0167-080121	MSD	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:18	EPA 200.8	0.000086	0.1	0.1	0.000016	0.00008	mg/L	103	1	70	130	20
PACE_MPLS	10573163	761991	SWSD0177-080121MS	4062982	SWSD0177-080121	MS	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 01:05	EPA 200.8	0.000071	0.1	0.1	0.000016	0.00008	mg/L	101	0	70	130	0
PACE_MPLS	10573163	761991	SWSD0167-080121MS	4062980	SWSD0167-080121	MS	INITIAL	CdDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:15	EPA 200.8	0.000086	0.1	0.1	0.000016	0.00008	mg/L	102	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0184-080121MS	4062985	SWSD0184-080121	MS	INITIAL	CdDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:48	EPA 200.8	0.00026	0.1	0.1	0.000016	0.00008	mg/L	102	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0184-080121MSD	4062986	SWSD0184-080121	MSD	INITIAL	CdDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:51	EPA 200.8	0.00026	0.1	0.1	0.000016	0.00008	mg/L	101	1	70	130	20
PACE_MPLS	10573163	761992	SWSD0194-080321MS	4062987	SWSD0194-080321	MS	INITIAL	CdDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 02:35	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	103	0	70	130	0
PACE_MPLS	10573163	761992	4062983BLANK_10573163	4062983		MB	INITIAL	CdDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:34	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761992	4062984LCS_10573163	4062984		LCS	INITIAL	CdDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:24	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	101	0	85	115	0
PACE_MPLS	10573163	762131	4063449BLANK_10573163	4063449		MB	INITIAL	CdTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:54	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762131	4063450LCS_10573163	4063450		LCS	INITIAL	CdTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:57	EPA 200.8	0	0.1	0.101	0.000016	0.00008	mg/L	101	0	85	115	0
PACE_MPLS	10573163	762131	SWSD0154-080121MSD	4063452	SWSD0154-080121	MSD	INITIAL	CdTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:31	EPA 200.8	0.0015	0.1	0.088	0.00008	0.0004	mg/L	87	6	70	130	20
PACE_MPLS	10573163	762131	SWSD0154-080121MS	4063451	SWSD0154-080121	MS	INITIAL	CdTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:22	EPA 200.8	0.0015	0.1	0.0931	0.00008	0.0004	mg/L	92	0	70	130	0
PACE_MPLS	10573163	762131	SWSD0160-080121MS	4063453	SWSD0160-080121	MS	INITIAL	CdTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:53	EPA 200.8	0.0075	0.1	0.1	0.00008	0.0004	mg/L	93	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0167-080121MSD	4063467	SWSD0167-080121	MSD	INITIAL	CdTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 11:48	EPA 200.8	0.00076	0.1	0.102	0.00008	0.0004	mg/L	101	1	70	130	20
PACE_MPLS	10573163	762132	SWSD0167-080121MS	4063466	SWSD0167-080121	MS	INITIAL	CdTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 11:44	EPA 200.8	0.00076	0.1	0.103	0.00008	0.0004	mg/L	102	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0177-080121MS	4063468	SWSD0177-080121	MS	INITIAL	CdTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-17 12:28	EPA 200.8	0.0011	0.1	0.0925	0.00008	0.0004	mg/L	91	0	70	130	0
PACE_MPLS	10573163	762132	4063464BLANK_10573163	4063464		MB	INITIAL	CdTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 11:29	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10573163	762132	4063465LCS_10573163	4063465		LCS	INITIAL	CdTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 11:32	EPA 200.8	0	0.1	0.109	0.000016	0.00008	mg/L	109	0	85	115	0
PACE_MPLS	10573163	762133	4063469BLANK_10573163	4063469		MB	INITIAL	CdTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:08	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762133	4063470LCS_10573163	4063470		LCS	INITIAL	CdTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:11	EPA 200.8	0	0.1	0.101	0.000016	0.00008	mg/L	101	0	85	115	0
PACE_MPLS	10573163	762133	SWSD0194-080321MS	4063473	SWSD0194-080321	MS	INITIAL	CdTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 11:15	EPA 200.8	0.000002	0.1	0.1	0.000016	0.00008	mg/L	100	0	70	130	0
PACE_MPLS	10573163	762133	SWSD0184-080121MSD	4063472	SWSD0184-080121	MSD	INITIAL	CdTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:28	EPA 200.8	0.00071	0.1	0.103	0.000016	0.00008	mg/L	102	1	70	130	20
PACE_MPLS	10573163	762133	SWSD0184-080121MS	4063471	SWSD0184-080121	MS	INITIAL	CdTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:25	EPA 200.8	0.00071	0.1	0.102	0.000016	0.00008	mg/L	102	0	70	130	0
PACE_MPLS	10573163	764616	SWSD0174-080321MSD	4075762	SWSD0174-080321	MSD	INITIAL	CdTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:18	EPA 200.8	0.000019	0.1	0.102	0.000016	0.00008	mg/L	102	3	70	130	20
PACE_MPLS	10573163	764616	SWSD0174-080321MS	4075761	SWSD0174-080321	MS	INITIAL	CdTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:15	EPA 200.8	0.000019	0.1	0.0994	0.000016	0.00008	mg/L	99	0	70	130	0
PACE_MPLS	10573163	764616	4075759BLANK_10573163	4075759		MB	INITIAL	CdTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:00	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10573163	764616	4075760LCS_10573163	4075760		LCS	INITIAL	CdTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:03	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	100	0	85	115	0
PACE_MPLS	10573163	761990	SWSD0154-080121MS	4062975	SWSD0154-080121	MS	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:31	EPA 200.8	0.019	0.1	0.12	0.0005	0.001	mg/L	106	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0154-080121MSD	4062976	SWSD0154-080121	MSD	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:35	EPA 200.8	0.019	0.1	0.12	0.0005	0.001	mg/L	103	3	70	130	20
PACE_MPLS	10573163	761990	4062973BLANK_10573163	4062973		MB	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:05	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761990	4062974LCS_10573163	4062974		LCS	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:08	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	103	0	85	115	0
PACE_MPLS	10573163	761990	SWSD0160-080121MS	4062977	SWSD0160-080121	MS	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 09:28	EPA 200.8	0.027	0.1	0.13	0.0005	0.001	mg/L	108	0	70	130	0
PACE_MPLS	10573163	761991	SWSD0167-080121MS	4062980	SWSD0167-080121	MS	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:15	EPA 200.8	0.026	0.1	0.13	0.0005	0.001	mg/L	104	0	70	130	0
PACE_MPLS	10573163	761991	SWSD0167-080121MSD	4062981	SWSD0167-080121	MSD	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:18	EPA 200.8	0.026	0.1	0.13	0.0005	0.001	mg/L	102	1	70	130	20
PACE_MPLS	10573163	761991	SWSD0177-080121MS	4062982	SWSD0177-080121	MS	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 01:05	EPA 200.8	0.019	0.1	0.12	0.0005	0.001	mg/L	99	0	70	130	0
PACE_MPLS	10573163	761991	4062978BLANK_10573163	4062978		MB	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 11:58	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761991	4062979LCS_10573163	4062979		LCS	INITIAL	CuDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:02	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	105	0	85	115	0
PACE_MPLS	10573163	761992	4062983BLANK_10573163	4062983		MB	INITIAL	CuDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:34	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761992	4062984LCS_10573163	4062984		LCS	INITIAL	CuDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:24	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	108	0	85	115	0
PACE_MPLS	10573163	761992	SWSD0184-080121MS	4062985	SWSD0184-080121	MS	INITIAL	CuDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:48	EPA 200.8	0.06	0.1	0.16	0.0005	0.001	mg/L	103	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0184-080121MSD	4062986	SWSD0184-080121	MSD	INITIAL	CuDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:51	EPA 200.8	0.06	0.1	0.16	0.0005	0.001	mg/L	105	1	70	130	20
PACE_MPLS	10573163	761992	SWSD0194-080321MS	4062987	SWSD0194-080321	MS	INITIAL	CuDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 02:35	EPA 200.8	0.00055	0.1	0.11	0.0005	0.001	mg/L	110	0	70	130	0
PACE_MPLS	10573163	762131	SWSD0160-080121MS	4063453	SWSD0160-080121	MS	INITIAL	CuTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:53	EPA 200.8	0.778	0.1	0.919	0.0025	0.005	mg/L	142	0	70	130	0
PACE_MPLS	10573163	762131	4063450LCS_10573163	4063450		LCS	INITIAL	CuTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:57	EPA 200.8	0	0.1	0.104	0.0005	0.001	mg/L	104	0	85	115	0
PACE_MPLS	10573163	762131	4063449BLANK_10573163	4063449		MB	INITIAL	CuTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:54	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762131	SWSD0154-080121MSD	4063452	SWSD0154-080121	MSD	INITIAL	CuTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:31	EPA 200.8	0.175	0.1	0.281	0.0025	0.005	mg/L	105	2	70	130	20
PACE_MPLS	10573163	762131	SWSD0154-080121MS	4063451	SWSD0154-080121	MS	INITIAL	CuTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:22	EPA 200.8	0.175	0.1	0.286	0.0025	0.005	mg/L	111	0	70	130	0
PACE_MPLS	10573163	762132	4063465LCS_10573163	4063465		LCS	REANALYSIS	CuTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-17 02:15	EPA 200.8	0	0.1	0.0979	0.0005	0.001	mg/L	98	0	85	115	0
PACE_MPLS	10573163	762132	4063464BLANK_10573163	4063464		MB	REANALYSIS	CuTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-17 02:12	EPA 200.8	0	0	0.0015	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762132	SWSD0167-080121MS	4063466	SWSD0167-080121	MS	DILUTION	CuTR	T	10	2021-08-13 07:37	EPA 200.8	2021-08-17 02:27	EPA 200.8	0.197	0.1	0.294	0.005	0.01	mg/L	98	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0167-080121MSD	4063467	SWSD0167-080121	MSD	DILUTION	CuTR	T	10	2021-08-13 07:37	EPA 200.8	2021-08-17 02:30	EPA 200.8	0.197	0.1	0.288	0.005	0.01	mg/L	92	2	70	130	20
PACE_MPLS	10573163	762132	SWSD0177-080121MS	4063468	SWSD0177-080121	MS	DILUTION	CuTR	T	10	2021-08-13 07:37	EPA 200.8	2021-08-17 03:10	EPA 200.8	0.226	0.1	0.312	0.005	0.01	mg/L	86	0	70	130	0
PACE_MPLS	10573163	762133	SWSD0194-080321MS	4063473	SWSD0194-080321	MS	INITIAL	CuTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 11:15	EPA 200.8	0.00049	0.1	0.102	0.0005	0.001	mg/L	101	0	70	130	0
PACE_MPLS	10573163	762133	SWSD0184-080121MSD	4063472	SWSD0184-080121	MSD	INITIAL	CuTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:28	EPA 200.8	0.117	0.1	0.212	0.0005	0.001	mg/L	95	1	70	130	20
PACE_MPLS	10573163	762133	SWSD0184-080121MS	4063471	SWSD0184-080121	MS	INITIAL	CuTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:25	EPA 200.8	0.117	0.1	0.211	0.0005	0.001	mg/L	93	0	70	130	0
PACE_MPLS	10573163	762133	4063469BLANK_10573163	4063469		MB	INITIAL	CuTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:08	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762133	4063470LCS_10573163	4063470		LCS	INITIAL	CuTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:11	EPA 200.8	0	0.1	0.103	0.0005	0.001	mg/L	103	0	85	115	0
PACE_MPLS	10573163	764616	4075759BLANK_10573163	4075759		MB	INITIAL	CuTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:00	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	764616	4075760LCS_10573163	4075760		LCS	INITIAL	CuTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:03	EPA 200.8	0	0.1	0.106	0.0005	0.001	mg/L	106	0	85	115	0
PACE_MPLS	10573163	764616	SWSD0174-080321MSD	4075762	SWSD0174-080321	MSD	INITIAL	CuTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:18	EPA 200.8	0.00014	0.1	0.107	0.0005	0.001	mg/L	107	3	70	130	20
PACE_MPLS	10573163	764616	SWSD0174-080321MS	4075761	SWSD0174-080321	MS	INITIAL	CuTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:15	EPA 200.8	0.00014	0.1	0.104	0.0005	0.001	mg/L	104	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0160-080121MS	4062977	SWSD0160-080121	MS	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 09:28	EPA 200.8	0.066	2	2.2	0.012	0.05	mg/L	106	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0154-080121MS	4062975	SWSD0154-080121	MS	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:31	EPA 200.8	0.042	2	2.2	0.012	0.05	mg/L	108	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0154-080121MSD	4062976	SWSD0154-080121	MSD	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:35	EPA 200.8	0.042	2	2.1	0.012	0.05	mg/L	105	3	70	130	20
PACE_MPLS	10573163	761990	4062973BLANK_10573163	4062973		MB	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:05	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761990	4062974LCS_10573163	4062974		LCS	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:08	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	107	0	85	115	0
PACE_MPLS	10573163	761991	4062978BLANK_10573163	4062978		MB	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 11:58	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761991	4062979LCS_10573163	4062979		LCS	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:02	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	106	0	85	115	0
PACE_MPLS	10573163	761991	SWSD0167-080121MSD	4062981	SWSD0167-080121	MSD	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:18	EPA 200.8	0.12	2	2.2	0.012	0.05	mg/L	105	1	70	130	20
PACE_MPLS	10573163	761991	SWSD0167-080121MS	4062980	SWSD0167-080121	MS	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:15	EPA 200.8	0.12	2	2.2	0.012	0.05	mg/L	104	0	70	130	0
PACE_MPLS	10573163	761991	SWSD0177-080121MS	4062982	SWSD0177-080121	MS	INITIAL	FeDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 01:05	EPA 200.8	0.064	2	2.1	0.012	0.05	mg/L	102	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0184-080121MS	4062985	SWSD0184-080121	MS	INITIAL	FeDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:48	EPA 200.8	0.042	2	2.2	0.012	0.05	mg/L	107	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0184-080121MSD	4062986	SWSD0184-080121	MSD	INITIAL	FeDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:51	EPA 200.8	0.042	2	2.1	0.012	0.05	mg/L	105	1	70	130	20
PACE_MPLS	10573163	761992	SWSD0194-080321MS	4062987	SWSD0194-080321	MS	INITIAL	FeDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 02:35	EPA 200.8	0.0019	2	2.2	0.012	0.05	mg/L	109	0	70	130	0
PACE_MPLS	10573163	761992	4062983BLANK_10573163	4062983		MB	INITIAL	FeDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:34	EPA 200.8	0	0	0.013	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761992	4062984LCS_10573163	4062984		LCS	INITIAL	FeDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:24	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	107	0	85	115	0
PACE_MPLS	10573163	762131	4063449BLANK_10573163	4063449		MB	INITIAL	FeTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:54	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10573163	762131	4063450LCS_10573163	4063450		LCS	INITIAL	FeTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:57	EPA 200.8	0	2	2.02	0.0121	0.05	mg/L	101	0	85	115	0
PACE_MPLS	10573163	762131	SWSD0154-080121MSD	4063452	SWSD0154-080121	MSD	INITIAL	FeTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:31	EPA 200.8	10.4	2	13.4	0.0605	0.25	mg/L	146	2	70	130	20
PACE_MPLS	10573163	762131	SWSD0154-080121MS	4063451	SWSD0154-080121	MS	INITIAL	FeTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:22	EPA 200.8	10.4	2	13.6	0.0605	0.25	mg/L	160	0	70	130	0
PACE_MPLS	10573163	762131	SWSD0160-080121MS	4063453	SWSD0160-080121	MS	INITIAL	FeTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:53	EPA 200.8	69.1	2	71.2	0.0605	0.25	mg/L	102	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0167-080121MS	4063466	SWSD0167-080121	MS	DILUTION	FeTR	T	10	2021-08-13 07:37	EPA 200.8	2021-08-17 02:27	EPA 200.8	7.68	2	10	0.121	0.5	mg/L	118	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0177-080121MS	4063468	SWSD0177-080121	MS	DILUTION	FeTR	T	10	2021-08-13 07:37	EPA 200.8	2021-08-17 03:10	EPA 200.8	13.9	2	16.1	0.121	0.5	mg/L	109	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0167-080121MSD	4063467	SWSD0167-080121	MSD	DILUTION	FeTR	T	10	2021-08-13 07:37	EPA 200.8	2021-08-17 02:30	EPA 200.8	7.68	2	9.76	0.121	0.5	mg/L	104	3	70	130	20
PACE_MPLS	10573163	762132	4063464BLANK_10573163	4063464		MB	REANALYSIS	FeTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-17 02:12	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762132	4063465LCS_10573163	4063465		LCS	REANALYSIS	FeTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-17 02:15	EPA 200.8	0	2	2.12	0.0121	0.05	mg/L	106	0	85	115	0
PACE_MPLS	10573163	762133	4063469BLANK_10573163	4063469		MB	INITIAL	FeTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:08	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762133	4063470LCS_10573163	4063470		LCS	INITIAL	FeTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:11	EPA 200.8	0	2	2.06	0.0121	0.05	mg/L	103	0	85	115	0
PACE_MPLS	10573163	762133	SWSD0194-080321MS	4063473	SWSD0194-080321	MS	INITIAL	FeTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 11:15	EPA 200.8	0.0076	2	2.07	0.0121	0.05	mg/L	103	0	70	130	0
PACE_MPLS	10573163	762133	SWSD0184-080121MSD	4063472	SWSD0184-080121	MSD	INITIAL	FeTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:28	EPA 200.8	2.14	2	4.2	0.0121	0.05	mg/L	103	3	70	130	20
PACE_MPLS	10573163	762133	SWSD0184-080121MS	4063471	SWSD0184-080121	MS	INITIAL	FeTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:25	EPA 200.8	2.14	2	4.1	0.0121	0.05	mg/L	98	0	70	130	0
PACE_MPLS	10573163	764616	SWSD0174-080321MS	4075761	SWSD0174-080321	MS	INITIAL	FeTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:15	EPA 200.8	0	2	2.05	0.0121	0.05	mg/L	102	0	70	130	0
PACE_MPLS	10573163	764616	SWSD0174-080321MSD	4075762	SWSD0174-080321	MSD	INITIAL	FeTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:18	EPA 200.8	0	2	2.17	0.0121	0.05	mg/L	109	6	70	130	20
PACE_MPLS	10573163	764616	4075759BLANK_10573163	4075759		MB	INITIAL	FeTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:00	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10573163	764616	4075760LCS_10573163	4075760		LCS	INITIAL	FeTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:03	EPA 200.8	0	2	2.12	0.0121	0.05	mg/L	106	0	85	115	0
PACE_MPLS	10573163	762184	SWSD0154-080121MS	4063732	SWSD0154-080121	MS	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 02:05	EPA 245.1	0.000053	0.005	0.0053	0.000045	0.0002	mg/L	104	0	70	130	0
PACE_MPLS	10573163	762184	SWSD0154-080121MSD	4063733	SWSD0154-080121	MSD	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 02:06	EPA 245.1	0.00005	0.005	0.0053	0.000045	0.0002	mg/L	106	1	70	130	20
PACE_MPLS	10573163	762184	4063730BLANK_10573163	4063730		MB	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 01:55	EPA 245.1	0	0	0.000048	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762184	4063731LCS_10573163	4063731		LCS	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 01:56	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
PACE_MPLS	10573163	762184	SWSD0161-080121MS	4063734	SWSD0161-080121	MS	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 02:21	EPA 245.1	0.000054	0.005	0.0053	0.000045	0.0002	mg/L	105	0	70	130	0
PACE_MPLS	10573163	762185	SWSD0167-080121MS	4063738	SWSD0167-080121	MS	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 01:14	EPA 245.1	0.00004	0.005	0.0054	0.000045	0.0002	mg/L	107	0	70	130	0
PACE_MPLS	10573163	762185	SWSD0167-080121MSD	4063739	SWSD0167-080121	MSD	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 01:16	EPA 245.1	0.00004	0.005	0.0053	0.000045	0.0002	mg/L	105	1	70	130	20
PACE_MPLS	10573163	762185	SWSD0178-080121MS	4063740	SWSD0178-080121	MS	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 01:39	EPA 245.1	0.000021	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
PACE_MPLS	10573163	762185	4063736BLANK_10573163	4063736		MB	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 01:10	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762185	4063737LCS_10573163	4063737		LCS	INITIAL	HgDis	D	1	2021-08-12 08:02	EPA 245.1	2021-08-18 01:12	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
PACE_MPLS	10573163	762187	4063751BLANK_10573163	4063751		MB	INITIAL	HgDis	D	1	2021-08-13 10:08	EPA 245.1	2021-08-18 02:37	EPA 245.1	0	0	0.000054	0.000054	0.00024	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762187	4063752LCS_10573163	4063752		LCS	INITIAL	HgDis	D	1	2021-08-13 10:08	EPA 245.1	2021-08-18 02:38	EPA 245.1	0	0.006	0.0064	0.000054	0.00024	mg/L	107	0	85	115	0
PACE_MPLS	10573163	762187	SWSD0184-080121MS	4063753	SWSD0184-080121	MS	INITIAL	HgDis	D	1	2021-08-13 10:08	EPA 245.1	2021-08-18 02:41	EPA 245.1	0	0.006	0.0062	0.000054	0.00024	mg/L	104	0	70	130	0
PACE_MPLS	10573163	762187	SWSD0184-080121MSD	4063754	SWSD0184-080121	MSD	INITIAL	HgDis	D	1	2021-08-13 10:08	EPA 245.1	2021-08-18 02:43	EPA 245.1	0	0.006	0.0065	0.000054	0.00024	mg/L	109	5	70	130	20
PACE_MPLS	10573163	762187	SWSD0196-080121MS	4063755	SWSD0196-080121	MS	INITIAL	HgDis	D	1	2021-08-13 10:08	EPA 245.1	2021-08-18 03:03	EPA 245.1	0	0.006	0.0063	0.000054	0.00024	mg/L	106	0	70	130	0
PACE_MPLS	10573163	762188	SWSD0162-080121MS	4063762	SWSD0162-080121	MS	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 05:02	EPA 245.1	0.00023	0.005	0.0055	0.000045	0.0002	mg/L	105	0	70	130	0
PACE_MPLS	10573163	762188	4063758BLANK_10573163	4063758		MB	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 04:31	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762188	4063759LCS_10573163	4063759		LCS	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 04:32	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	103	0	85	115	0
PACE_MPLS	10573163	762188	SWSD0154-080121MSD	4063761	SWSD0154-080121	MSD	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 04:43	EPA 245.1	0.0002	0.005	0.0055	0.000045	0.0002	mg/L	106	0	70	130	20
PACE_MPLS	10573163	762188	SWSD0154-080121MS	4063760	SWSD0154-080121	MS	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 04:41	EPA 245.1	0.0002	0.005	0.0055	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10573163	762190	4063763BLANK_10573163	4063763		MB	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 03:48	EPA 245.1	0	0	0.000054	0.000054	0.00024	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762190	4063764LCS_10573163	4063764		LCS	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 03:50	EPA 245.1	0	0.006	0.0062	0.000054	0.00024	mg/L	104	0	85	115	0
PACE_MPLS	10573163	762190	SWSD0167-080121MS	4063765	SWSD0167-080121	MS	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 03:53	EPA 245.1	0.000091	0.006	0.0064	0.000054	0.00024	mg/L	106	0	70	130	0
PACE_MPLS	10573163	762190	SWSD0167-080121MSD	4063766	SWSD0167-080121	MSD	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 03:54	EPA 245.1	0.000091	0.006	0.0052	0.000054	0.00024	mg/L	85	21	70	130	20
PACE_MPLS	10573163	762190	SWSD0178-080121MS	4063767	SWSD0178-080121	MS	INITIAL	HgTR	T	1	2021-08-13 07:59	EPA 245.1	2021-08-18 04:18	EPA 245.1	0.00017	0.006	0.0064	0.000054	0.00024	mg/L	103	0	70	130	0
PACE_MPLS	10573163	762191	SWSD0195-080121MS	4063773	SWSD0195-080121	MS	INITIAL	HgTR	T	1	2021-08-13 10:08	EPA 245.1	2021-08-18 03:38	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	105	0	70	130	0
PACE_MPLS	10573163	762191	SWSD0184-080121MSD	4063772	SWSD0184-080121	MSD	INITIAL	HgTR	T	1	2021-08-13 10:08	EPA 245.1	2021-08-18 03:18	EPA 245.1	0.000084	0.005	0.0054	0.000045	0.0002	mg/L	106	0	70	130	20
PACE_MPLS	10573163	762191	SWSD0184-080121MS	4063771	SWSD0184-080121	MS	INITIAL	HgTR	T	1	2021-08-13 10:08	EPA 245.1	2021-08-18 03:16	EPA 245.1	0.000084	0.005	0.0054	0.000045	0.0002	mg/L	107	0	70	130	0
PACE_MPLS	10573163	762191	4063769BLANK_10573163	4063769		MB	INITIAL	HgTR	T	1	2021-08-13 10:08	EPA 245.1	2021-08-18 03:12	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762191	4063770LCS_10573163	4063770		LCS	INITIAL	HgTR	T	1	2021-08-13 10:08	EPA 245.1	2021-08-18 03:13	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	103	0	85	115	0
PACE_MPLS	10573163	761990	SWSD0154-080121MS	4062975	SWSD0154-080121	MS	INITIAL	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:31	EPA 200.8	0.0017	0.1	0.11	0.000028	0.0001	mg/L	106	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0160-080121MS	4062977	SWSD0160-080121	MS	INITIAL	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 09:28	EPA 200.8	0.0016	0.1	0.11	0.000028	0.0001	mg/L	109	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0154-080121MSD	4062976	SWSD0154-080121	MSD	INITIAL	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:35	EPA 200.8	0.0017	0.1	0.1	0.000028	0.0001	mg/L	103	3	70	130	20
PACE_MPLS	10573163	761990	4062974LCS_10573163	4062974		LCS	INITIAL	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:08	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	108	0	85	115	0
PACE_MPLS	10573163	761990	4062973BLANK_10573163	4062973		MB	INITIAL	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:05	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761991	4062978BLANK_10573163	4062978		MB	REANALYSIS	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 01:55	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761991	4062979LCS_10573163	4062979		LCS	INITIAL	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:02	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	106	0	85	115	0
PACE_MPLS	10573163	761991	SWSD0177-080121MS	4062982	SWSD0177-080121	MS	INITIAL	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 01:05	EPA 200.8	0.00072	0.1	0.1	0.000028	0.0001	mg/L	102	0	70	130	0
PACE_MPLS	10573163	761991	SWSD0167-080121MSD	4062981	SWSD0167-080121	MSD	INITIAL	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:18	EPA 200.8	0.0021	0.1	0.11	0.000028	0.0001	mg/L	104	1	70	130	20
PACE_MPLS	10573163	761991	SWSD0167-080121MS	4062980	SWSD0167-080121	MS	INITIAL	PbDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:15	EPA 200.8	0.0021	0.1	0.1	0.000028	0.0001	mg/L	103	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0184-080121MS	4062985	SWSD0184-080121	MS	INITIAL	PbDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:48	EPA 200.8	0.001	0.1	0.1	0.000028	0.0001	mg/L	102	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0184-080121MSD	4062986	SWSD0184-080121	MSD	INITIAL	PbDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:51	EPA 200.8	0.001	0.1	0.1	0.000028	0.0001	mg/L	103	1	70	130	20

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10573163	761992	SWSD0194-080321MS	4062987	SWSD0194-080321	MS	INITIAL	PbDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 02:35	EPA 200.8	0.00002	0.1	0.11	0.000028	0.0001	mg/L	106	0	70	130	0
PACE_MPLS	10573163	761992	4062984LCS_10573163	4062984		LCS	INITIAL	PbDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:24	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	103	0	85	115	0
PACE_MPLS	10573163	761992	4062983BLANK_10573163	4062983		MB	INITIAL	PbDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:34	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762131	4063449BLANK_10573163	4063449		MB	INITIAL	PbTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:54	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762131	4063450LCS_10573163	4063450		LCS	INITIAL	PbTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:57	EPA 200.8	0	0.1	0.0961	0.000028	0.0001	mg/L	96	0	85	115	0
PACE_MPLS	10573163	762131	SWSD0154-080121MSD	4063452	SWSD0154-080121	MSD	INITIAL	PbTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:31	EPA 200.8	0.177	0.1	0.276	0.00014	0.0005	mg/L	99	4	70	130	20
PACE_MPLS	10573163	762131	SWSD0154-080121MS	4063451	SWSD0154-080121	MS	INITIAL	PbTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:22	EPA 200.8	0.177	0.1	0.287	0.00014	0.0005	mg/L	110	0	70	130	0
PACE_MPLS	10573163	762131	SWSD0160-080121MS	4063453	SWSD0160-080121	MS	INITIAL	PbTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:53	EPA 200.8	0.664	0.1	0.759	0.00014	0.0005	mg/L	95	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0167-080121MSD	4063467	SWSD0167-080121	MSD	INITIAL	PbTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 11:48	EPA 200.8	0.0532	0.1	0.146	0.00014	0.0005	mg/L	93	2	70	130	20
PACE_MPLS	10573163	762132	SWSD0167-080121MS	4063466	SWSD0167-080121	MS	INITIAL	PbTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 11:44	EPA 200.8	0.0532	0.1	0.149	0.00014	0.0005	mg/L	96	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0177-080121MS	4063468	SWSD0177-080121	MS	INITIAL	PbTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-17 12:28	EPA 200.8	0.109	0.1	0.196	0.00014	0.0005	mg/L	88	0	70	130	0
PACE_MPLS	10573163	762132	4063464BLANK_10573163	4063464		MB	INITIAL	PbTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 11:29	EPA 200.8	0	0	0.000073	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762132	4063465LCS_10573163	4063465		LCS	INITIAL	PbTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 11:32	EPA 200.8	0	0.1	0.103	0.000028	0.0001	mg/L	103	0	85	115	0
PACE_MPLS	10573163	762133	4063469BLANK_10573163	4063469		MB	INITIAL	PbTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:08	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762133	4063470LCS_10573163	4063470		LCS	INITIAL	PbTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:11	EPA 200.8	0	0.1	0.103	0.000028	0.0001	mg/L	103	0	85	115	0
PACE_MPLS	10573163	762133	SWSD0184-080121MSD	4063472	SWSD0184-080121	MSD	INITIAL	PbTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:28	EPA 200.8	0.0454	0.1	0.146	0.000028	0.0001	mg/L	101	1	70	130	20
PACE_MPLS	10573163	762133	SWSD0194-080321MS	4063473	SWSD0194-080321	MS	INITIAL	PbTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 11:15	EPA 200.8	0.000095	0.1	0.103	0.000028	0.0001	mg/L	103	0	70	130	0
PACE_MPLS	10573163	762133	SWSD0184-080121MS	4063471	SWSD0184-080121	MS	INITIAL	PbTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:25	EPA 200.8	0.0454	0.1	0.144	0.000028	0.0001	mg/L	99	0	70	130	0
PACE_MPLS	10573163	764616	SWSD0174-080321MSD	4075762	SWSD0174-080321	MSD	INITIAL	PbTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:18	EPA 200.8	0.000092	0.1	0.11	0.000028	0.0001	mg/L	110	3	70	130	20
PACE_MPLS	10573163	764616	SWSD0174-080321MS	4075761	SWSD0174-080321	MS	INITIAL	PbTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:15	EPA 200.8	0.000092	0.1	0.107	0.000028	0.0001	mg/L	107	0	70	130	0
PACE_MPLS	10573163	764616	4075759BLANK_10573163	4075759		MB	INITIAL	PbTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:00	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10573163	764616	4075760LCS_10573163	4075760		LCS	INITIAL	PbTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:03	EPA 200.8	0	0.1	0.107	0.000028	0.0001	mg/L	107	0	85	115	0
PACE_MPLS	10573163	763352	4069581BLANK_10573163	4069581		MB	INITIAL	SO4	T	1	2021-08-16 12:54	METHOD	2021-08-16 12:54	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10573163	763352	4069582LCS_10573163	4069582		LCS	INITIAL	SO4	T	1	2021-08-16 12:55	METHOD	2021-08-16 12:55	ASTM D516-90-02	0	20	18.1	1.2	2.5	mg/L	91	0	80	120	0
PACE_MPLS	10573163	763352	4069583LCSD_10573163	4069583	4069582LCS_10573163	LCSD	INITIAL	SO4	T	1	2021-08-16 12:55	METHOD	2021-08-16 12:55	ASTM D516-90-02	0	20	18.2	1.2	2.5	mg/L	91	1	80	120	20
PACE_MPLS	10573163	764344	4074394BLANK_10573163	4074394		MB	INITIAL	SO4	T	1	2021-08-20 04:37	METHOD	2021-08-20 04:37	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10573163	764344	4074395LCS_10573163	4074395		LCS	INITIAL	SO4	T	1	2021-08-18 06:27	METHOD	2021-08-18 06:27	ASTM D516-90-02	0	20	20.3	1.2	2.5	mg/L	101	0	80	120	0
PACE_MPLS	10573163	764344	4074396LCSD_10573163	4074396	4074395LCS_10573163	LCSD	INITIAL	SO4	T	1	2021-08-18 06:28	METHOD	2021-08-18 06:28	ASTM D516-90-02	0	20	20.2	1.2	2.5	mg/L	101	0	80	120	20
PACE_MPLS	10573163	764344	SWSD0154-080121MS	4074397	SWSD0154-080121	MS	INITIAL	SO4	T	2	2021-08-18 06:30	METHOD	2021-08-18 06:30	ASTM D516-90-02	14.5	40	68.9	2.4	5	mg/L	136	0	80	120	0
PACE_MPLS	10573163	764344	SWSD0154-080121MSD	4074398	SWSD0154-080121	MSD	INITIAL	SO4	T	2	2021-08-18 06:31	METHOD	2021-08-18 06:31	ASTM D516-90-02	14.5	40	60.1	2.4	5	mg/L	114	14	80	120	30
PACE_MPLS	10573163	764344	SWSD0167-080121MSD	4074400	SWSD0167-080121	MSD	INITIAL	SO4	T	2	2021-08-18 06:40	METHOD	2021-08-18 06:40	ASTM D516-90-02	12.1	40	57.4	2.4	5	mg/L	113	1	80	120	30
PACE_MPLS	10573163	764344	SWSD0167-080121MS	4074399	SWSD0167-080121	MS	INITIAL	SO4	T	2	2021-08-18 06:39	METHOD	2021-08-18 06:39	ASTM D516-90-02	12.1	40	58.1	2.4	5	mg/L	115	0	80	120	0
PACE_MPLS	10573163	764345	SWSD0173-080121MS	4074407	SWSD0173-080121	MS	INITIAL	SO4	T	5	2021-08-18 06:12	METHOD	2021-08-18 06:12	ASTM D516-90-02	29.8	100	147	6	12.5	mg/L	117	0	80	120	0
PACE_MPLS	10573163	764345	SWSD0173-080121MSD	4074408	SWSD0173-080121	MSD	INITIAL	SO4	T	5	2021-08-18 06:13	METHOD	2021-08-18 06:13	ASTM D516-90-02	29.8	100	147	6	12.5	mg/L	117	0	80	120	30
PACE_MPLS	10573163	764345	SWSD0184-080121MS	4074409	SWSD0184-080121	MS	INITIAL	SO4	T	2	2021-08-18 06:20	METHOD	2021-08-18 06:20	ASTM D516-90-02	31.7	40	72.8	2.4	5	mg/L	103	0	80	120	0
PACE_MPLS	10573163	764345	SWSD0184-080121MSD	4074410	SWSD0184-080121	MSD	INITIAL	SO4	T	2	2021-08-18 06:21	METHOD	2021-08-18 06:21	ASTM D516-90-02	31.7	40	78.5	2.4	5	mg/L	117	8	80	120	30
PACE_MPLS	10573163	764345	4074404BLANK_10573163	4074404		MB	INITIAL	SO4	T	1	2021-08-20 04:39	METHOD	2021-08-20 04:39	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10573163	764345	4074405LCS_10573163	4074405		LCS	INITIAL	SO4	T	1	2021-08-18 06:11	METHOD	2021-08-18 06:11	ASTM D516-90-02	0	20	19.8	1.2	2.5	mg/L	99	0	80	120	0
PACE_MPLS	10573163	764345	4074406LCSD_10573163	4074406	4074405LCS_10573163	LCSD	INITIAL	SO4	T	1	2021-08-18 06:11	METHOD	2021-08-18 06:11	ASTM D516-90-02	0	20	20	1.2	2.5	mg/L	100	1	80	120	20
PACE_MPLS	10573163	764346	4074413BLANK_10573163	4074413		MB	INITIAL	SO4	T	1	2021-08-20 04:21	METHOD	2021-08-20 04:21	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10573163	764346	4074414LCS_10573163	4074414		LCS	INITIAL	SO4	T	1	2021-08-19 12:38	METHOD	2021-08-19 12:38	ASTM D516-90-02	0	20	18.2	1.2	2.5	mg/L	91	0	80	120	0
PACE_MPLS	10573163	764346	4074415LCSD_10573163	4074415	4074414LCS_10573163	LCSD	INITIAL	SO4	T	1	2021-08-19 12:39	METHOD	2021-08-19 12:39	ASTM D516-90-02	0	20	19.2	1.2	2.5	mg/L	96	5	80	120	20
PACE_MPLS	10573163	764346	SWSD0194-080321MSD	4074419	SWSD0194-080321	MSD	INITIAL	SO4	T	1	2021-08-19 12:42	METHOD	2021-08-19 12:42	ASTM D516-90-02	0.6	20	20	1.2	2.5	mg/L	97	4	80	120	30
PACE_MPLS	10573163	764346	SWSD0193-080121MS	4074416	SWSD0193-080121	MS	INITIAL	SO4	T	5	2021-08-20 05:06	METHOD	2021-08-20 05:06	ASTM D516-90-02	69.4	20	92.4	6	12.5	mg/L	115	0	80	120	0
PACE_MPLS	10573163	764346	SWSD0193-080121MSD	4074417	SWSD0193-080121	MSD	INITIAL	SO4	T	5	2021-08-20 05:06	METHOD	2021-08-20 05:06	ASTM D516-90-02	69.4	20	92.9	6	12.5	mg/L	118	1	80	120	30
PACE_MPLS	10573163	764346	SWSD0194-080321MS	4074418	SWSD0194-080321	MS	INITIAL	SO4	T	1	2021-08-20 04:24	METHOD	2021-08-20 04:24	ASTM D516-90-02	0.6	20	19.3	1.2	2.5	mg/L	93	0	80	120	0
PACE_MPLS	10573163	761629	SWSD0154-080121DUP	4060818	SWSD0154-080121	LR	INITIAL	TSS	T	1	2021-08-06 12:28	METHOD	2021-08-06 12:28	SM 2540D	478	0	540	10	20	mg/L	0	12	0	0	5
PACE_MPLS	10573163	761629	4060815BLANK_10573163	4060815		MB	INITIAL	TSS	T	1	2021-08-06 12:28	METHOD	2021-08-06 12:28	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761629	4060816LCS_10573163	4060816		LCS	INITIAL	TSS	T	1	2021-08-06 12:28	METHOD	2021-08-06 12:28	SM 2540D	0	100	104	10	20	mg/L	104	0	80	120	0
PACE_MPLS	10573163	761631	4060821BLANK_10573163	4060821		MB	INITIAL	TSS	T	1	2021-08-06 02:00	METHOD	2021-08-06 02:00	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761631	4060822LCS_10573163	4060822		LCS	INITIAL	TSS	T	1	2021-08-06 02:00	METHOD	2021-08-06 02:00	SM 2540D	0	100	103	10	20	mg/L	103	0	80	120	0
PACE_MPLS	10573163	761631	SWSD0184-080121DUP	4060824	SWSD0184-080121	LR	INITIAL	TSS	T	1	2021-08-06 02:00	METHOD	2021-08-06 02:00	SM 2540D	69	0	70.2	5	10	mg/L	0	2	0	0	5
PACE_MPLS	10573163	761631	SWSD0167-080121DUP	4060823	SWSD0167-080121	LR	INITIAL	TSS	T	1	2021-08-06 02:00	METHOD	2021-08-06 02:00	SM 2540D	196	0	187	10	20	mg/L	0	5	0	0	5
PACE_MPLS	10573163	761632	SWSD0186-080121DUP	4060829	SWSD0186-080121	LR	INITIAL	TSS	T	1	2021-08-06 03:29	METHOD	2021-08-06 03:29	SM 2540D	35.8	0	32.3	5	10	mg/L	0	10	0	0	5
PACE_MPLS	10573163	761632	SWSD0187-080121DUP	4061732	SWSD0187-080121	LR	INITIAL	TSS	T	1	2021-08-06 03:29	METHOD	2021-08-06 03:29	SM 2540D	83.3	0	86.7	5	10	mg/L	0	4	0	0	5
PACE_MPLS	10573163	761632	4060827BLANK_10573163	4060827		MB	INITIAL	TSS	T	1	2021-08-06 03:29	METHOD	2021-08-06 03:29	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761632	4060828LCS_10573163	4060828		LCS	INITIAL	TSS	T	1	2021-08-06 03:29	METHOD	2021-08-06 03:29	SM 2540D	0	100	103	10	20	mg/L	103	0	80	120	0
PACE_MPLS	10573163	762344	4064382BLANK_10573163	4064382		MB	INITIAL	TSS	T	1	2021-08-10 03:50	METHOD	2021-08-10 03:50	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762344	4064383LCS_10573163	4064383		LCS	INITIAL	TSS	T	1	2021-08-10 03:50	METHOD	2021-08-10 03:50	SM 2540D	0	100	93.6	10	20	mg/L	94	0	80	120	0
PACE_MPLS	10573163	761990	SWSD0154-080121MS	4062975	SWSD0154-080121	MS	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:31	EPA 200.8	0.038	0.1	0.14	0.002	0.005	mg/L	105	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0160-080121MS	4062977	SWSD0160-080121	MS	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 09:28	EPA 200.8	0.0057	0.1	0.11	0.002	0.005	mg/L	105	0	70	130	0
PACE_MPLS	10573163	761990	SWSD0154-080121MSD	4062976	SWSD0154-080121	MSD	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:35	EPA 200.8	0.038	0.1	0.14	0.002	0.005	mg/L	101	2	70	130	20
PACE_MPLS	10573163	761990	4062973BLANK_10573163	4062973		MB	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:05	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761990	4062974LCS_10573163	4062974		LCS	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 08:08	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	104	0	85	115	0
PACE_MPLS	10573163	761991	4062979LCS_10573163	4062979		LCS	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:02	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	102	0	85	115	0
PACE_MPLS	10573163	761991	4062978BLANK_10573163	4062978		MB	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-17 11:58	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761991	SWSD0167-080121MS	4062980	SWSD0167-080121	MS	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:15	EPA 200.8	0.023	0.1	0.12	0.002	0.005	mg/L	101	0	70	130	0
PACE_MPLS	10573163	761991	SWSD0167-080121MSD	4062981	SWSD0167-080121	MSD	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 12:18	EPA 200.8	0.023	0.1	0.12	0.002	0.005	mg/L	101	0	70	130	20
PACE_MPLS	10573163	761991	SWSD0177-080121MS	4062982	SWSD0177-080121	MS	INITIAL	ZnDis	D	1	2021-08-12 06:57	EPA 200.8	2021-08-18 01:05	EPA 200.8	0.0045	0.1	0.1	0.002	0.005	mg/L	98	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0184-080121MSD	4062986	SWSD0184-080121	MSD	INITIAL	ZnDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:51	EPA 200.8	0.038	0.1	0.14	0.002	0.005	mg/L	98	1	70	130	20
PACE_MPLS	10573163	761992	SWSD0184-080121MS	4062985	SWSD0184-080121	MS	INITIAL	ZnDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:48	EPA 200.8	0.038	0.1	0.14	0.002	0.005	mg/L	99	0	70	130	0
PACE_MPLS	10573163	761992	SWSD0194-080321MS	4062987	SWSD0194-080321	MS	INITIAL	ZnDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 02:35	EPA 200.8	0.0013	0.1	0.1	0.002	0.005	mg/L	103	0	70	130	0
PACE_MPLS	10573163	761992	4062983BLANK_10573163	4062983		MB	INITIAL	ZnDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:34	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	761992	4062984LCS_10573163	4062984		LCS	INITIAL	ZnDis	D	1	2021-08-13 11:19	EPA 200.8	2021-08-17 01:24	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	102	0	85	115	0
PACE_MPLS	10573163	762131	4063450LCS_10573163	4063450		LCS	INITIAL	ZnTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:57	EPA 200.8	0	0.1	0.102	0.002	0.005	mg/L	102	0	85	115	0
PACE_MPLS	10573163	762131	4063449BLANK_10573163	4063449		MB	INITIAL	ZnTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 09:54	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762131	SWSD0154-080121MSD	4063452	SWSD0154-080121	MSD	INITIAL	ZnTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:31	EPA 200.8	0.631	0.1	0.764	0.0098	0.025	mg/L	133	5	70	130	20
PACE_MPLS	10573163	762131	SWSD0154-080121MS	4063451	SWSD0154-080121	MS	INITIAL	ZnTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:22	EPA 200.8	0.631	0.1	0.803	0.0098	0.025	mg/L	172	0	70	130	0
PACE_MPLS	10573163	762131	SWSD0160-080121MS	4063453	SWSD0160-080121	MS	INITIAL	ZnTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 10:53	EPA 200.8	1.67	0.1	1.8	0.0098	0.025	mg/L	136	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0167-080121MSD	4063467	SWSD0167-080121	MSD	INITIAL	ZnTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 11:48	EPA 200.8	0.256	0.1	0.351	0.0098	0.025	mg/L	96	1	70	130	20
PACE_MPLS	10573163	762132	SWSD0167-080121MS	4063466	SWSD0167-080121	MS	INITIAL	ZnTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-16 11:44	EPA 200.8	0.256	0.1	0.355	0.0098	0.025	mg/L	99	0	70	130	0
PACE_MPLS	10573163	762132	SWSD0177-080121MS	4063468	SWSD0177-080121	MS	INITIAL	ZnTR	T	5	2021-08-13 07:37	EPA 200.8	2021-08-17 12:28	EPA 200.8	0.365	0.1	0.456	0.0098	0.025	mg/L	90	0	70	130	0
PACE_MPLS	10573163	762132	4063465LCS_10573163	4063465		LCS	INITIAL	ZnTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 11:32	EPA 200.8	0	0.1	0.108	0.002	0.005	mg/L	108	0	85	115	0
PACE_MPLS	10573163	762132	4063464BLANK_10573163	4063464		MB	INITIAL	ZnTR	T	1	2021-08-13 07:37	EPA 200.8	2021-08-16 11:29	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762133	4063469BLANK_10573163	4063469		MB	REANALYSIS	ZnTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-18 01:50	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	762133	4063470LCS_10573163	4063470		LCS	INITIAL	ZnTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:11	EPA 200.8	0	0.1	0.102	0.002	0.005	mg/L	102	0	85	115	0
PACE_MPLS	10573163	762133	SWSD0194-080321MS	4063473	SWSD0194-080321	MS	INITIAL	ZnTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 11:15	EPA 200.8	0.0012	0.1	0.0999	0.002	0.005	mg/L	99	0	70	130	0
PACE_MPLS	10573163	762133	SWSD0184-080121MS	4063471	SWSD0184-080121	MS	INITIAL	ZnTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:25	EPA 200.8	0.198	0.1	0.286	0.002	0.005	mg/L	88	0	70	130	0
PACE_MPLS	10573163	762133	SWSD0184-080121MSD	4063472	SWSD0184-080121	MSD	INITIAL	ZnTR	T	1	2021-08-13 11:19	EPA 200.8	2021-08-17 10:28	EPA 200.8	0.198	0.1	0.287	0.002	0.005	mg/L	89	0	70	130	20
PACE_MPLS	10573163	764616	SWSD0174-080321MSD	4075762	SWSD0174-080321	MSD	INITIAL	ZnTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:18	EPA 200.8	0.00061	0.1	0.104	0.002	0.005	mg/L	104	3	70	130	20
PACE_MPLS	10573163	764616	SWSD0174-080321MS	4075761	SWSD0174-080321	MS	INITIAL	ZnTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:15	EPA 200.8	0.00061	0.1	0.101	0.002	0.005	mg/L	100	0	70	130	0
PACE_MPLS	10573163	764616	4075759BLANK_10573163	4075759		MB	INITIAL	ZnTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:00	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10573163	764616	4075760LCS_10573163	4075760		LCS	INITIAL	ZnTR	T	1	2021-08-20 07:08	EPA 200.8	2021-08-21 01:03	EPA 200.8	0	0.1	0.103	0.002	0.005	mg/L	103	0	85	115	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10574254	763827	4072552BLANK_10574254	4072552		MB	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:40	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763827	4072553LCS_10574254	4072553		LCS	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:43	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	105	0	85	115	0
PACE_MPLS	10574254	763827	SWSD0203-080821MS	4072554	SWSD0203-080821	MS	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:18	EPA 200.8	0.0039	0.1	0.11	0.000083	0.0005	mg/L	107	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0203-080821MSD	4072555	SWSD0203-080821	MSD	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:21	EPA 200.8	0.0039	0.1	0.11	0.000083	0.0005	mg/L	104	3	70	130	20
PACE_MPLS	10574254	763827	SWSD0209-080821MS	4072556	SWSD0209-080821	MS	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:45	EPA 200.8	0.0043	0.1	0.11	0.000083	0.0005	mg/L	104	0	70	130	0
PACE_MPLS	10574254	763828	SWSD0216-080821MS	4072559	SWSD0216-080821	MS	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:27	EPA 200.8	0.0075	0.1	0.11	0.000083	0.0005	mg/L	99	0	70	130	0
PACE_MPLS	10574254	763828	SWSD0216-080821MSD	4072560	SWSD0216-080821	MSD	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:30	EPA 200.8	0.0075	0.1	0.11	0.000083	0.0005	mg/L	100	1	70	130	20
PACE_MPLS	10574254	763828	SWSD0222-080821MS	4072561	SWSD0222-080821	MS	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 03:30	EPA 200.8	0.004	0.1	0.1	0.000083	0.0005	mg/L	100	0	70	130	0
PACE_MPLS	10574254	763828	4072557BLANK_10574254	4072557		MB	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763828	4072558LCS_10574254	4072558		LCS	INITIAL	AsDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.099	0.000083	0.0005	mg/L	99	0	85	115	0
PACE_MPLS	10574254	763890	4072690BLANK_10574254	4072690		MB	INITIAL	AsTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:39	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763890	4072691LCS_10574254	4072691		LCS	INITIAL	AsTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:42	EPA 200.8	0	0.1	0.0994	0.000083	0.0005	mg/L	99	0	85	115	0
PACE_MPLS	10574254	763890	SWSD0203-080821MS	4072692	SWSD0203-080821	MS	INITIAL	AsTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:12	EPA 200.8	0.0059	0.1	0.107	0.00041	0.0025	mg/L	101	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0209-080821MS	4072694	SWSD0209-080821	MS	INITIAL	AsTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:43	EPA 200.8	0.0194	0.1	0.122	0.00041	0.0025	mg/L	103	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0203-080821MSD	4072693	SWSD0203-080821	MSD	INITIAL	AsTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:15	EPA 200.8	0.0059	0.1	0.104	0.00041	0.0025	mg/L	98	3	70	130	20
PACE_MPLS	10574254	763896	SWSD0216-080821MSD	4072721	SWSD0216-080821	MSD	INITIAL	AsTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 02:03	EPA 200.8	0.009	0.1	0.0987	0.00041	0.0025	mg/L	90	1	70	130	20
PACE_MPLS	10574254	763896	SWSD0216-080821MS	4072720	SWSD0216-080821	MS	INITIAL	AsTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 01:59	EPA 200.8	0.009	0.1	0.0976	0.00041	0.0025	mg/L	89	0	70	130	0
PACE_MPLS	10574254	763896	4072719LCS_10574254	4072719		LCS	INITIAL	AsTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.0904	0.000083	0.0005	mg/L	90	0	85	115	0
PACE_MPLS	10574254	763896	4072718BLANK_10574254	4072718		MB	INITIAL	AsTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763896	SWSD0222-080821MS	4072722	SWSD0222-080821	MS	INITIAL	AsTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 11:53	EPA 200.8	0.0113	0.1	0.0976	0.00041	0.0025	mg/L	86	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0203-080821MS	4072554	SWSD0203-080821	MS	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:18	EPA 200.8	0.00015	0.1	0.11	0.000016	0.00008	mg/L	111	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0203-080821MSD	4072555	SWSD0203-080821	MSD	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:21	EPA 200.8	0.00015	0.1	0.11	0.000016	0.00008	mg/L	107	4	70	130	20
PACE_MPLS	10574254	763827	SWSD0209-080821MS	4072556	SWSD0209-080821	MS	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:45	EPA 200.8	0.000038	0.1	0.11	0.000016	0.00008	mg/L	109	0	70	130	0
PACE_MPLS	10574254	763827	4072553LCS_10574254	4072553		LCS	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:43	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	110	0	85	115	0
PACE_MPLS	10574254	763827	4072552BLANK_10574254	4072552		MB	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:40	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763828	SWSD0216-080821MS	4072559	SWSD0216-080821	MS	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:27	EPA 200.8	0.0001	0.1	0.1	0.000016	0.00008	mg/L	102	0	70	130	0
PACE_MPLS	10574254	763828	SWSD0216-080821MSD	4072560	SWSD0216-080821	MSD	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:30	EPA 200.8	0.0001	0.1	0.1	0.000016	0.00008	mg/L	103	1	70	130	20
PACE_MPLS	10574254	763828	SWSD0222-080821MS	4072561	SWSD0222-080821	MS	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 03:30	EPA 200.8	0.000038	0.1	0.1	0.000016	0.00008	mg/L	103	0	70	130	0
PACE_MPLS	10574254	763828	4072558LCS_10574254	4072558		LCS	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	102	0	85	115	0
PACE_MPLS	10574254	763828	4072557BLANK_10574254	4072557		MB	INITIAL	CdDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763890	4072690BLANK_10574254	4072690		MB	INITIAL	CdTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:39	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763890	4072691LCS_10574254	4072691		LCS	INITIAL	CdTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:42	EPA 200.8	0	0.1	0.0998	0.000016	0.00008	mg/L	100	0	85	115	0
PACE_MPLS	10574254	763890	SWSD0209-080821MS	4072694	SWSD0209-080821	MS	INITIAL	CdTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:43	EPA 200.8	0.0012	0.1	0.106	0.00008	0.0004	mg/L	104	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0203-080821MS	4072692	SWSD0203-080821	MS	INITIAL	CdTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:12	EPA 200.8	0.00024	0.1	0.101	0.00008	0.0004	mg/L	101	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0203-080821MSD	4072693	SWSD0203-080821	MSD	INITIAL	CdTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:15	EPA 200.8	0.00024	0.1	0.1	0.00008	0.0004	mg/L	100	1	70	130	20
PACE_MPLS	10574254	763896	SWSD0216-080821MSD	4072721	SWSD0216-080821	MSD	INITIAL	CdTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 02:03	EPA 200.8	0.0002	0.1	0.0904	0.00008	0.0004	mg/L	90	0	70	130	20
PACE_MPLS	10574254	763896	4072718BLANK_10574254	4072718		MB	INITIAL	CdTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763896	4072719LCS_10574254	4072719		LCS	INITIAL	CdTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.0932	0.000016	0.00008	mg/L	93	0	85	115	0
PACE_MPLS	10574254	763896	SWSD0216-080821MS	4072720	SWSD0216-080821	MS	INITIAL	CdTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 01:59	EPA 200.8	0.0002	0.1	0.0908	0.00008	0.0004	mg/L	91	0	70	130	0
PACE_MPLS	10574254	763896	SWSD0222-080821MS	4072722	SWSD0222-080821	MS	INITIAL	CdTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 11:53	EPA 200.8	0.00043	0.1	0.091	0.00008	0.0004	mg/L	91	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0203-080821MS	4072554	SWSD0203-080821	MS	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:18	EPA 200.8	0.013	0.1	0.12	0.0005	0.001	mg/L	110	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0203-080821MSD	4072555	SWSD0203-080821	MSD	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:21	EPA 200.8	0.013	0.1	0.12	0.0005	0.001	mg/L	105	4	70	130	20
PACE_MPLS	10574254	763827	SWSD0209-080821MS	4072556	SWSD0209-080821	MS	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:45	EPA 200.8	0.0083	0.1	0.12	0.0005	0.001	mg/L	111	0	70	130	0
PACE_MPLS	10574254	763827	4072552BLANK_10574254	4072552		MB	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:40	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763827	4072553LCS_10574254	4072553		LCS	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:43	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	114	0	85	115	0
PACE_MPLS	10574254	763828	SWSD0216-080821MSD	4072560	SWSD0216-080821	MSD	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:30	EPA 200.8	0.029	0.1	0.13	0.0005	0.001	mg/L	106	3	70	130	20
PACE_MPLS	10574254	763828	SWSD0216-080821MS	4072559	SWSD0216-080821	MS	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:27	EPA 200.8	0.029	0.1	0.13	0.0005	0.001	mg/L	102	0	70	130	0
PACE_MPLS	10574254	763828	4072557BLANK_10574254	4072557		MB	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763828	4072558LCS_10574254	4072558		LCS	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	105	0	85	115	0
PACE_MPLS	10574254	763828	SWSD0222-080821MS	4072561	SWSD0222-080821	MS	INITIAL	CuDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 03:30	EPA 200.8	0.022	0.1	0.13	0.0005	0.001	mg/L	108	0	70	130	0
PACE_MPLS	10574254	763890	4072690BLANK_10574254	4072690		MB	INITIAL	CuTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:39	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763890	4072691LCS_10574254	4072691		LCS	INITIAL	CuTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:42	EPA 200.8	0	0.1	0.106	0.0005	0.001	mg/L	106	0	85	115	0
PACE_MPLS	10574254	763890	SWSD0203-080821MS	4072692	SWSD0203-080821	MS	INITIAL	CuTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:12	EPA 200.8	0.0362	0.1	0.149	0.0025	0.005	mg/L	113	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0209-080821MS	4072694	SWSD0209-080821	MS	INITIAL	CuTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:43	EPA 200.8	0.464	0.1	0.58	0.0025	0.005	mg/L	116	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0203-080821MSD	4072693	SWSD0203-080821	MSD	INITIAL	CuTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:15	EPA 200.8	0.0362	0.1	0.145	0.0025	0.005	mg/L	109	2	70	130	20
PACE_MPLS	10574254	763896	SWSD0216-080821MS	4072720	SWSD0216-080821	MS	INITIAL	CuTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 01:59	EPA 200.8	0.0662	0.1	0.151	0.0025	0.005	mg/L	85	0	70	130	0
PACE_MPLS	10574254	763896	SWSD0216-080821MSD	4072721	SWSD0216-080821	MSD	INITIAL	CuTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 02:03	EPA 200.8	0.0662	0.1	0.155	0.0025	0.005	mg/L	89	3	70	130	20
PACE_MPLS	10574254	763896	4072719LCS_10574254	4072719		LCS	INITIAL	CuTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.0949	0.0005	0.001	mg/L	95	0	85	115	0
PACE_MPLS	10574254	763896	4072718BLANK_10574254	4072718		MB	INITIAL	CuTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10574254	763896	SWSD0222-080821MS	4072722	SWSD0222-080821	MS	INITIAL	CuTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 11:53	EPA 200.8	0.218	0.1	0.325	0.0025	0.005	mg/L	106	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0203-080821MS	4072554	SWSD0203-080821	MS	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:18	EPA 200.8	0.054	2	2.2	0.012	0.05	mg/L	109	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0203-080821MSD	4072555	SWSD0203-080821	MSD	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:21	EPA 200.8	0.054	2	2.2	0.012	0.05	mg/L	106	2	70	130	20
PACE_MPLS	10574254	763827	SWSD0209-080821MS	4072556	SWSD0209-080821	MS	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:45	EPA 200.8	0.15	2	2.3	0.012	0.05	mg/L	107	0	70	130	0
PACE_MPLS	10574254	763827	4072553LCS_10574254	4072553		LCS	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:43	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	109	0	85	115	0
PACE_MPLS	10574254	763827	4072552BLANK_10574254	4072552		MB	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:40	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763828	4072557BLANK_10574254	4072557		MB	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763828	SWSD0216-080821MS	4072559	SWSD0216-080821	MS	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:27	EPA 200.8	0.074	2	2.1	0.012	0.05	mg/L	102	0	70	130	0
PACE_MPLS	10574254	763828	SWSD0216-080821MSD	4072560	SWSD0216-080821	MSD	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:30	EPA 200.8	0.074	2	2.1	0.012	0.05	mg/L	104	2	70	130	20
PACE_MPLS	10574254	763828	4072558LCS_10574254	4072558		LCS	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
PACE_MPLS	10574254	763828	SWSD0222-080821MS	4072561	SWSD0222-080821	MS	INITIAL	FeDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 03:30	EPA 200.8	0.058	2	2.2	0.012	0.05	mg/L	105	0	70	130	0
PACE_MPLS	10574254	763890	4072691LCS_10574254	4072691		LCS	INITIAL	FeTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:42	EPA 200.8	0	2	2.11	0.0121	0.05	mg/L	105	0	85	115	0
PACE_MPLS	10574254	763890	4072690BLANK_10574254	4072690		MB	INITIAL	FeTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:39	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763890	SWSD0203-080821MS	4072692	SWSD0203-080821	MS	INITIAL	FeTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:12	EPA 200.8	1.92	2	4.29	0.0605	0.25	mg/L	118	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0209-080821MS	4072694	SWSD0209-080821	MS	INITIAL	FeTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:43	EPA 200.8	15.3	2	18.1	0.0605	0.25	mg/L	139	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0203-080821MSD	4072693	SWSD0203-080821	MSD	INITIAL	FeTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:15	EPA 200.8	1.92	2	4.11	0.0605	0.25	mg/L	110	4	70	130	20
PACE_MPLS	10574254	763896	SWSD0216-080821MS	4072720	SWSD0216-080821	MS	INITIAL	FeTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 01:59	EPA 200.8	1.4	2	3.32	0.0605	0.25	mg/L	96	0	70	130	0
PACE_MPLS	10574254	763896	SWSD0216-080821MSD	4072721	SWSD0216-080821	MSD	INITIAL	FeTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 02:03	EPA 200.8	1.4	2	3.3	0.0605	0.25	mg/L	95	1	70	130	20
PACE_MPLS	10574254	763896	4072719LCS_10574254	4072719		LCS	INITIAL	FeTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	2	2.04	0.0121	0.05	mg/L	102	0	85	115	0
PACE_MPLS	10574254	763896	4072718BLANK_10574254	4072718		MB	INITIAL	FeTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763896	SWSD0222-080821MS	4072722	SWSD0222-080821	MS	INITIAL	FeTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 11:53	EPA 200.8	6.23	2	8.6	0.0605	0.25	mg/L	119	0	70	130	0
PACE_MPLS	10574254	763831	4072572BLANK_10574254	4072572		MB	INITIAL	HgDis	D	1	2021-08-17 09:02	EPA 245.1	2021-08-19 03:29	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763831	4072573LCS_10574254	4072573		LCS	INITIAL	HgDis	D	1	2021-08-17 09:02	EPA 245.1	2021-08-19 03:31	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	0	85	115	0
PACE_MPLS	10574254	763831	SWSD0203-080821MS	4072574	SWSD0203-080821	MS	INITIAL	HgDis	D	1	2021-08-17 09:02	EPA 245.1	2021-08-19 03:40	EPA 245.1	0.000009	0.005	0.005	0.000045	0.0002	mg/L	100	0	70	130	0
PACE_MPLS	10574254	763831	SWSD0210-080821MS	4072576	SWSD0210-080821	MS	INITIAL	HgDis	D	1	2021-08-17 09:02	EPA 245.1	2021-08-19 03:57	EPA 245.1	0.000007	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
PACE_MPLS	10574254	763831	SWSD0203-080821MSD	4072575	SWSD0203-080821	MSD	INITIAL	HgDis	D	1	2021-08-17 09:02	EPA 245.1	2021-08-19 03:41	EPA 245.1	0.000009	0.005	0.0053	0.000045	0.0002	mg/L	106	5	70	130	20
PACE_MPLS	10574254	763832	SWSD0216-080821MSD	4072580	SWSD0216-080821	MSD	INITIAL	HgDis	D	1	2021-08-17 02:50	EPA 245.1	2021-08-19 11:11	EPA 245.1	0.000011	0.005	0.0052	0.000045	0.0002	mg/L	105	0	70	130	20
PACE_MPLS	10574254	763832	SWSD0216-080821MS	4072579	SWSD0216-080821	MS	INITIAL	HgDis	D	1	2021-08-17 02:50	EPA 245.1	2021-08-19 11:06	EPA 245.1	0.000011	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
PACE_MPLS	10574254	763832	4072577BLANK_10574254	4072577		MB	INITIAL	HgDis	D	1	2021-08-17 02:50	EPA 245.1	2021-08-19 10:56	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763832	4072578LCS_10574254	4072578		LCS	INITIAL	HgDis	D	1	2021-08-17 02:50	EPA 245.1	2021-08-19 10:58	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	99	0	85	115	0
PACE_MPLS	10574254	763832	SWSD0223-080821MS	4072581	SWSD0223-080821	MS	INITIAL	HgDis	D	1	2021-08-17 02:50	EPA 245.1	2021-08-19 11:25	EPA 245.1	0.000001	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10574254	763893	4072705BLANK_10574254	4072705		MB	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 05:15	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763893	4072706LCS_10574254	4072706		LCS	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 05:16	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	104	0	85	115	0
PACE_MPLS	10574254	763893	SWSD0203-080821MS	4072707	SWSD0203-080821	MS	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 05:25	EPA 245.1	0.000014	0.005	0.0053	0.000045	0.0002	mg/L	105	0	70	130	0
PACE_MPLS	10574254	763893	SWSD0203-080821MSD	4072708	SWSD0203-080821	MSD	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 05:29	EPA 245.1	0.000014	0.005	0.0053	0.000045	0.0002	mg/L	105	0	70	130	20
PACE_MPLS	10574254	763893	SWSD0210-080821MS	4072709	SWSD0210-080821	MS	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 05:44	EPA 245.1	0.00029	0.005	0.0053	0.000045	0.0002	mg/L	100	0	70	130	0
PACE_MPLS	10574254	763894	SWSD0216-080821MS	4072712	SWSD0216-080821	MS	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 02:59	EPA 245.1	0.000018	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
PACE_MPLS	10574254	763894	SWSD0216-080821MSD	4072713	SWSD0216-080821	MSD	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 03:00	EPA 245.1	0.000018	0.005	0.0051	0.000045	0.0002	mg/L	102	2	70	130	20
PACE_MPLS	10574254	763894	4072710BLANK_10574254	4072710		MB	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 02:48	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763894	4072711LCS_10574254	4072711		LCS	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 02:50	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	101	0	85	115	0
PACE_MPLS	10574254	763894	SWSD0223-080821MS	4072714	SWSD0223-080821	MS	INITIAL	HgTR	T	1	2021-08-18 07:58	EPA 245.1	2021-08-19 03:15	EPA 245.1	0.000097	0.005	0.0052	0.000045	0.0002	mg/L	103	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0203-080821MSD	4072555	SWSD0203-080821	MSD	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:21	EPA 200.8	0.00041	0.1	0.11	0.000028	0.0001	mg/L	106	6	70	130	20
PACE_MPLS	10574254	763827	SWSD0203-080821MS	4072554	SWSD0203-080821	MS	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:18	EPA 200.8	0.00041	0.1	0.11	0.000028	0.0001	mg/L	112	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0209-080821MS	4072556	SWSD0209-080821	MS	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:45	EPA 200.8	0.0016	0.1	0.11	0.000028	0.0001	mg/L	110	0	70	130	0
PACE_MPLS	10574254	763827	4072552BLANK_10574254	4072552		MB	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:40	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763827	4072553LCS_10574254	4072553		LCS	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:43	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	111	0	85	115	0
PACE_MPLS	10574254	763828	4072557BLANK_10574254	4072557		MB	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763828	SWSD0222-080821MS	4072561	SWSD0222-080821	MS	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 03:30	EPA 200.8	0.00044	0.1	0.11	0.000028	0.0001	mg/L	109	0	70	130	0
PACE_MPLS	10574254	763828	SWSD0216-080821MSD	4072560	SWSD0216-080821	MSD	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:30	EPA 200.8	0.0008	0.1	0.11	0.000028	0.0001	mg/L	106	2	70	130	20
PACE_MPLS	10574254	763828	SWSD0216-080821MS	4072559	SWSD0216-080821	MS	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:27	EPA 200.8	0.0008	0.1	0.11	0.000028	0.0001	mg/L	104	0	70	130	0
PACE_MPLS	10574254	763828	4072558LCS_10574254	4072558		LCS	INITIAL	PbDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	105	0	85	115	0
PACE_MPLS	10574254	763890	4072690BLANK_10574254	4072690		MB	INITIAL	PbTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:39	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763890	4072691LCS_10574254	4072691		LCS	INITIAL	PbTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:42	EPA 200.8	0	0.1	0.107	0.000028	0.0001	mg/L	107	0	85	115	0
PACE_MPLS	10574254	763890	SWSD0203-080821MS	4072692	SWSD0203-080821	MS	INITIAL	PbTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:12	EPA 200.8	0.0122	0.1	0.121	0.00014	0.0005	mg/L	109	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0203-080821MSD	4072693	SWSD0203-080821	MSD	INITIAL	PbTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:15	EPA 200.8	0.0122	0.1	0.12	0.00014	0.0005	mg/L	108	1	70	130	20
PACE_MPLS	10574254	763890	SWSD0209-080821MS	4072694	SWSD0209-080821	MS	INITIAL	PbTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:43	EPA 200.8	0.0971	0.1	0.215	0.00014	0.0005	mg/L	118	0	70	130	0
PACE_MPLS	10574254	763896	SWSD0216-080821MS	4072720	SWSD0216-080821	MS	INITIAL	PbTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 01:59	EPA 200.8	0.0119	0.1	0.1	0.00014	0.0005	mg/L	88	0	70	130	0
PACE_MPLS	10574254	763896	SWSD0216-080821MSD	4072721	SWSD0216-080821	MSD	INITIAL	PbTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 02:03	EPA 200.8	0.0119	0.1	0.0989	0.00014	0.0005	mg/L	87	2	70	130	20
PACE_MPLS	10574254	763896	4072719LCS_10574254	4072719		LCS	INITIAL	PbTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.093	0.000028	0.0001	mg/L	93	0	85	115	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10574254	763896	4072718BLANK_10574254	4072718		MB	INITIAL	PbTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763896	SWSD0222-080821MS	4072722	SWSD0222-080821	MS	INITIAL	PbTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 11:53	EPA 200.8	0.0336	0.1	0.128	0.00014	0.0005	mg/L	95	0	70	130	0
PACE_MPLS	10574254	764633	4075866BLANK_10574254	4075866		MB	INITIAL	SO4	T	1	2021-08-20 04:30	METHOD	2021-08-20 04:30	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10574254	764633	4075867LCS_10574254	4075867		LCS	INITIAL	SO4	T	1	2021-08-19 12:54	METHOD	2021-08-19 12:54	ASTM D516-90-02	0	20	17.2	1.2	2.5	mg/L	86	0	80	120	0
PACE_MPLS	10574254	764633	4075868LCSD_10574254	4075868	4075867LCS_10574254	LCSD	INITIAL	SO4	T	1	2021-08-19 12:55	METHOD	2021-08-19 12:55	ASTM D516-90-02	0	20	17.3	1.2	2.5	mg/L	86	1	80	120	20
PACE_MPLS	10574254	764633	SWSD0203-080821MS	4075871	SWSD0203-080821	MS	INITIAL	SO4	T	5	2021-08-19 01:09	METHOD	2021-08-19 01:09	ASTM D516-90-02	70.2	100	160	6	12.5	mg/L	90	0	80	120	0
PACE_MPLS	10574254	764633	SWSD0203-080821MSD	4075872	SWSD0203-080821	MSD	INITIAL	SO4	T	5	2021-08-19 01:09	METHOD	2021-08-19 01:09	ASTM D516-90-02	70.2	100	154	6	12.5	mg/L	84	4	80	120	30
PACE_MPLS	10574254	765934	4082015BLANK_10574254	4082015		MB	INITIAL	SO4	T	1	2021-08-25 03:05	METHOD	2021-08-25 03:05	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10574254	765934	4082016LCS_10574254	4082016		LCS	INITIAL	SO4	T	1	2021-08-25 03:03	METHOD	2021-08-25 03:03	ASTM D516-90-02	0	20	20	1.2	2.5	mg/L	100	0	80	120	0
PACE_MPLS	10574254	765934	4082017LCSD_10574254	4082017	4082016LCS_10574254	LCSD	INITIAL	SO4	T	1	2021-08-25 03:03	METHOD	2021-08-25 03:03	ASTM D516-90-02	0	20	20	1.2	2.5	mg/L	100	0	80	120	20
PACE_MPLS	10574254	765934	SWSD0216-080821MS	4082020	SWSD0216-080821	MS	INITIAL	SO4	T	5	2021-08-25 02:39	METHOD	2021-08-25 02:39	ASTM D516-90-02	18.8	100	147	6	12.5	mg/L	129	0	80	120	0
PACE_MPLS	10574254	765934	SWSD0216-080821MSD	4082021	SWSD0216-080821	MSD	INITIAL	SO4	T	5	2021-08-25 02:39	METHOD	2021-08-25 02:39	ASTM D516-90-02	18.8	100	150	6	12.5	mg/L	131	2	80	120	30
PACE_MPLS	10574254	765934	SWSD0206-080821MS	4082018	SWSD0206-080821	MS	INITIAL	SO4	T	5	2021-08-25 02:32	METHOD	2021-08-25 02:32	ASTM D516-90-02	62.2	100	173	6	12.5	mg/L	111	0	80	120	0
PACE_MPLS	10574254	765934	SWSD0206-080821MSD	4082019	SWSD0206-080821	MSD	INITIAL	SO4	T	5	2021-08-25 02:32	METHOD	2021-08-25 02:32	ASTM D516-90-02	62.2	100	170	6	12.5	mg/L	108	2	80	120	30
PACE_MPLS	10574254	765965	4082147BLANK_10574254	4082147		MB	INITIAL	SO4	T	1	2021-08-25 03:05	METHOD	2021-08-25 03:05	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10574254	765965	4082148LCS_10574254	4082148		LCS	INITIAL	SO4	T	1	2021-08-25 03:02	METHOD	2021-08-25 03:02	ASTM D516-90-02	0	20	19.8	1.2	2.5	mg/L	99	0	80	120	0
PACE_MPLS	10574254	765965	4082149LCSD_10574254	4082149	4082148LCS_10574254	LCSD	INITIAL	SO4	T	1	2021-08-25 03:02	METHOD	2021-08-25 03:02	ASTM D516-90-02	0	20	19.9	1.2	2.5	mg/L	99	1	80	120	20
PACE_MPLS	10574254	765965	SWSD0226-081121MS	4082150	SWSD0226-081121	MS	INITIAL	SO4	T	2	2021-08-25 02:46	METHOD	2021-08-25 02:46	ASTM D516-90-02	0.16	40	43	2.4	5	mg/L	107	0	80	120	0
PACE_MPLS	10574254	765965	SWSD0226-081121MSD	4082151	SWSD0226-081121	MSD	INITIAL	SO4	T	2	2021-08-25 02:47	METHOD	2021-08-25 02:47	ASTM D516-90-02	0.16	40	43.3	2.4	5	mg/L	108	1	80	120	30
PACE_MPLS	10574254	766356	4083810BLANK_10574254	4083810		MB	INITIAL	SO4	T	1	2021-08-27 04:56	METHOD	2021-08-27 04:56	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10574254	766356	4083811LCS_10574254	4083811		LCS	INITIAL	SO4	T	1	2021-08-27 01:39	METHOD	2021-08-27 01:39	ASTM D516-90-02	0	20	18.2	1.2	2.5	mg/L	91	0	80	120	0
PACE_MPLS	10574254	766356	4083812LCSD_10574254	4083812	4083811LCS_10574254	LCSD	INITIAL	SO4	T	1	2021-08-27 01:40	METHOD	2021-08-27 01:40	ASTM D516-90-02	0	20	18	1.2	2.5	mg/L	90	1	80	120	20
PACE_MPLS	10574254	766356	SWSD0207-080821MS	4083813	SWSD0207-080821	MS	INITIAL	SO4	T	2	2021-08-27 11:56	METHOD	2021-08-27 11:56	ASTM D516-90-02	5.2	40	56.8	2.4	5	mg/L	129	0	80	120	0
PACE_MPLS	10574254	766356	SWSD0207-080821MSD	4083814	SWSD0207-080821	MSD	INITIAL	SO4	T	2	2021-08-27 11:56	METHOD	2021-08-27 11:56	ASTM D516-90-02	5.2	40	54.6	2.4	5	mg/L	123	4	80	120	30
PACE_MPLS	10574254	766356	SWSD0208-080821MS	4083815	SWSD0208-080821	MS	INITIAL	SO4	T	2	2021-08-27 11:57	METHOD	2021-08-27 11:57	ASTM D516-90-02	5.4	40	50.9	2.4	5	mg/L	114	0	80	120	0
PACE_MPLS	10574254	766356	SWSD0208-080821MSD	4083816	SWSD0208-080821	MSD	INITIAL	SO4	T	2	2021-08-27 11:58	METHOD	2021-08-27 11:58	ASTM D516-90-02	5.4	40	53.2	2.4	5	mg/L	120	5	80	120	30
PACE_MPLS	10574254	763323	SWSD0202-080821DUP	4069485	SWSD0202-080821	LR	INITIAL	TSS	T	1	2021-08-13 03:04	METHOD	2021-08-13 03:04	SM 2540D	420	0	482	5	10	mg/L	0	14	0	0	5
PACE_MPLS	10574254	763323	SWSD0203-080821DUP	4069486	SWSD0203-080821	LR	INITIAL	TSS	T	1	2021-08-13 03:04	METHOD	2021-08-13 03:04	SM 2540D	45.2	0	47.4	5	10	mg/L	0	5	0	0	5
PACE_MPLS	10574254	763323	4069483BLANK_10574254	4069483		MB	INITIAL	TSS	T	1	2021-08-13 03:04	METHOD	2021-08-13 03:04	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763323	4069484LCS_10574254	4069484		LCS	INITIAL	TSS	T	1	2021-08-13 03:04	METHOD	2021-08-13 03:04	SM 2540D	0	100	88.2	10	20	mg/L	88	0	80	120	0
PACE_MPLS	10574254	763326	4069490BLANK_10574254	4069490		MB	INITIAL	TSS	T	1	2021-08-13 04:03	METHOD	2021-08-13 04:03	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763326	4069491LCS_10574254	4069491		LCS	INITIAL	TSS	T	1	2021-08-13 04:03	METHOD	2021-08-13 04:03	SM 2540D	0	100	86.4	10	20	mg/L	86	0	80	120	0
PACE_MPLS	10574254	763326	SWSD0216-080821DUP	4069492	SWSD0216-080821	LR	INITIAL	TSS	T	1	2021-08-13 04:03	METHOD	2021-08-13 04:03	SM 2540D	33.7	0	31.9	5	10	mg/L	0	5	0	0	5
PACE_MPLS	10574254	764144	4073635BLANK_10574254	4073635		MB	INITIAL	TSS	T	1	2021-08-18 10:09	METHOD	2021-08-18 10:09	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10574254	764144	4073636LCS_10574254	4073636		LCS	INITIAL	TSS	T	1	2021-08-18 10:09	METHOD	2021-08-18 10:09	SM 2540D	0	100	94.4	10	20	mg/L	94	0	80	120	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10574254	763827	SWSD0203-080821MS	4072554	SWSD0203-080821	MS	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:18	EPA 200.8	0.14	0.1	0.24	0.002	0.005	mg/L	105	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0209-080821MS	4072556	SWSD0209-080821	MS	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:45	EPA 200.8	0.0087	0.1	0.12	0.002	0.005	mg/L	108	0	70	130	0
PACE_MPLS	10574254	763827	SWSD0203-080821MSD	4072555	SWSD0203-080821	MSD	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 07:21	EPA 200.8	0.14	0.1	0.24	0.002	0.005	mg/L	102	1	70	130	20
PACE_MPLS	10574254	763827	4072552BLANK_10574254	4072552		MB	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:40	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763827	4072553LCS_10574254	4072553		LCS	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-19 06:43	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	110	0	85	115	0
PACE_MPLS	10574254	763828	SWSD0216-080821MS	4072559	SWSD0216-080821	MS	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:27	EPA 200.8	0.02	0.1	0.12	0.002	0.005	mg/L	100	0	70	130	0
PACE_MPLS	10574254	763828	SWSD0222-080821MS	4072561	SWSD0222-080821	MS	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 03:30	EPA 200.8	0.0068	0.1	0.11	0.002	0.005	mg/L	103	0	70	130	0
PACE_MPLS	10574254	763828	SWSD0216-080821MSD	4072560	SWSD0216-080821	MSD	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 02:30	EPA 200.8	0.02	0.1	0.12	0.002	0.005	mg/L	102	2	70	130	20
PACE_MPLS	10574254	763828	4072558LCS_10574254	4072558		LCS	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:27	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	102	0	85	115	0
PACE_MPLS	10574254	763828	4072557BLANK_10574254	4072557		MB	INITIAL	ZnDis	D	1	2021-08-17 02:10	EPA 200.8	2021-08-18 01:24	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763890	4072690BLANK_10574254	4072690		MB	INITIAL	ZnTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:39	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763890	4072691LCS_10574254	4072691		LCS	INITIAL	ZnTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-20 05:42	EPA 200.8	0	0.1	0.104	0.002	0.005	mg/L	104	0	85	115	0
PACE_MPLS	10574254	763890	SWSD0203-080821MS	4072692	SWSD0203-080821	MS	INITIAL	ZnTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:12	EPA 200.8	0.229	0.1	0.345	0.0098	0.025	mg/L	116	0	70	130	0
PACE_MPLS	10574254	763890	SWSD0203-080821MSD	4072693	SWSD0203-080821	MSD	INITIAL	ZnTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:15	EPA 200.8	0.229	0.1	0.335	0.0098	0.025	mg/L	106	3	70	130	20
PACE_MPLS	10574254	763890	SWSD0209-080821MS	4072694	SWSD0209-080821	MS	INITIAL	ZnTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-20 06:43	EPA 200.8	0.442	0.1	0.566	0.0098	0.025	mg/L	124	0	70	130	0
PACE_MPLS	10574254	763896	SWSD0216-080821MSD	4072721	SWSD0216-080821	MSD	INITIAL	ZnTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 02:03	EPA 200.8	0.0599	0.1	0.15	0.0098	0.025	mg/L	90	2	70	130	20
PACE_MPLS	10574254	763896	SWSD0216-080821MS	4072720	SWSD0216-080821	MS	INITIAL	ZnTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 01:59	EPA 200.8	0.0599	0.1	0.147	0.0098	0.025	mg/L	87	0	70	130	0
PACE_MPLS	10574254	763896	4072719LCS_10574254	4072719		LCS	INITIAL	ZnTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 01:01	EPA 200.8	0	0.1	0.0928	0.002	0.005	mg/L	93	0	85	115	0
PACE_MPLS	10574254	763896	4072718BLANK_10574254	4072718		MB	INITIAL	ZnTR	T	1	2021-08-18 07:14	EPA 200.8	2021-08-24 12:58	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10574254	763896	SWSD0222-080821MS	4072722	SWSD0222-080821	MS	INITIAL	ZnTR	T	5	2021-08-18 07:14	EPA 200.8	2021-08-24 11:53	EPA 200.8	0.141	0.1	0.238	0.0098	0.025	mg/L	97	0	70	130	0
PACE_MPLS	10575529	765478	4080161BLANK_10575529	4080161		MB	INITIAL	AsDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:18	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765478	4080162LCS_10575529	4080162		LCS	INITIAL	AsDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:21	EPA 200.8	0	0.1	0.095	0.000083	0.0005	mg/L	95	0	85	115	0
PACE_MPLS	10575529	765478	SWSD0230-081821MS	4080163	SWSD0230-081821	MS	INITIAL	AsDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-26 01:00	EPA 200.8	0.0027	0.1	0.096	0.00041	0.0025	mg/L	93	0	70	130	0
PACE_MPLS	10575529	765478	SWSD0230-081821MSD	4080164	SWSD0230-081821	MSD	INITIAL	AsDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:02	EPA 200.8	0.0027	0.1	0.096	0.00041	0.0025	mg/L	93	0	70	130	20
PACE_MPLS	10575529	765478	SWSD0238-081821MS	4080165	SWSD0238-081821	MS	INITIAL	AsDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:31	EPA 200.8	0.0054	0.1	0.099	0.00041	0.0025	mg/L	93	0	70	130	0
PACE_MPLS	10575529	765481	4080169BLANK_10575529	4080169		MB	INITIAL	AsDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:02	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765481	4080170LCS_10575529	4080170		LCS	INITIAL	AsDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:05	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	102	0	85	115	0
PACE_MPLS	10575529	765481	SWSD0244-081821MS	4080171	SWSD0244-081821	MS	INITIAL	AsDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:17	EPA 200.8	0.0036	0.1	0.11	0.000083	0.0005	mg/L	102	0	70	130	0
PACE_MPLS	10575529	765481	SWSD0244-081821MSD	4080172	SWSD0244-081821	MSD	INITIAL	AsDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:20	EPA 200.8	0.0036	0.1	0.1	0.000083	0.0005	mg/L	101	1	70	130	20
PACE_MPLS	10575529	765483	4080175BLANK_10575529	4080175		MB	INITIAL	AsTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:47	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765483	4080176LCS_10575529	4080176		LCS	INITIAL	AsTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:50	EPA 200.8	0	0.1	0.101	0.000083	0.0005	mg/L	101	0	85	115	0
PACE_MPLS	10575529	765483	SWSD0238-081821MS	4080179	SWSD0238-081821	MS	INITIAL	AsTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:49	EPA 200.8	0.0379	0.1	0.146	0.00041	0.0025	mg/L	108	0	70	130	0
PACE_MPLS	10575529	765483	SWSD0230-081821MS	4080177	SWSD0230-081821	MS	INITIAL	AsTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:07	EPA 200.8	0.0132	0.1	0.117	0.00041	0.0025	mg/L	104	0	70	130	0
PACE_MPLS	10575529	765483	SWSD0230-081821MSD	4080178	SWSD0230-081821	MSD	INITIAL	AsTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:17	EPA 200.8	0.0132	0.1	0.112	0.00041	0.0025	mg/L	99	4	70	130	20
PACE_MPLS	10575529	765484	4080180BLANK_10575529	4080180		MB	INITIAL	AsTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:25	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765484	4080181LCS_10575529	4080181		LCS	INITIAL	AsTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:28	EPA 200.8	0	0.1	0.0995	0.000083	0.0005	mg/L	100	0	85	115	0
PACE_MPLS	10575529	765484	SWSD0244-081821MSD	4080183	SWSD0244-081821	MSD	INITIAL	AsTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:43	EPA 200.8	0.0223	0.1	0.138	0.00041	0.0025	mg/L	116	6	70	130	20
PACE_MPLS	10575529	765484	SWSD0244-081821MS	4080182	SWSD0244-081821	MS	INITIAL	AsTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:40	EPA 200.8	0.0223	0.1	0.13	0.00041	0.0025	mg/L	108	0	70	130	0
PACE_MPLS	10575529	765484	SWSD0254-082021MS	4080184	SWSD0254-082021	MS	INITIAL	AsTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 06:26	EPA 200.8	0.0068	0.1	0.106	0.00041	0.0025	mg/L	99	0	70	130	0
PACE_MPLS	10575529	766686	4085629BLANK_10575529	4085629		MB	INITIAL	AsTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:47	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10575529	766686	4085630LCS_10575529	4085630		LCS	INITIAL	AsTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:51	EPA 200.8	0	0.1	0.101	0.000083	0.0005	mg/L	101	0	85	115	0
PACE_MPLS	10575529	766686	4085708LCSD_10575529	4085708	4085630LCS_10575529	LCSD	INITIAL	AsTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:54	EPA 200.8	0	0.1	0.104	0.000083	0.0005	mg/L	104	3	85	115	20
PACE_MPLS	10575529	765478	SWSD0230-081821MS	4080163	SWSD0230-081821	MS	INITIAL	CdDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-26 01:00	EPA 200.8	0.00018	0.1	0.086	0.00008	0.0004	mg/L	85	0	70	130	0
PACE_MPLS	10575529	765478	SWSD0230-081821MSD	4080164	SWSD0230-081821	MSD	INITIAL	CdDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:02	EPA 200.8	0.00018	0.1	0.096	0.00008	0.0004	mg/L	96	12	70	130	20
PACE_MPLS	10575529	765478	SWSD0238-081821MS	4080165	SWSD0238-081821	MS	INITIAL	CdDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:31	EPA 200.8	0.000012	0.1	0.095	0.00008	0.0004	mg/L	95	0	70	130	0
PACE_MPLS	10575529	765478	4080161BLANK_10575529	4080161		MB	INITIAL	CdDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:18	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765478	4080162LCS_10575529	4080162		LCS	INITIAL	CdDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:21	EPA 200.8	0	0.1	0.09	0.000016	0.00008	mg/L	90	0	85	115	0
PACE_MPLS	10575529	765481	4080169BLANK_10575529	4080169		MB	INITIAL	CdDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:02	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765481	4080170LCS_10575529	4080170		LCS	INITIAL	CdDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:05	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	102	0	85	115	0
PACE_MPLS	10575529	765481	SWSD0244-081821MS	4080171	SWSD0244-081821	MS	INITIAL	CdDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:17	EPA 200.8	0.000091	0.1	0.1	0.000016	0.00008	mg/L	104	0	70	130	0
PACE_MPLS	10575529	765481	SWSD0244-081821MSD	4080172	SWSD0244-081821	MSD	INITIAL	CdDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:20	EPA 200.8	0.000091	0.1	0.1	0.000016	0.00008	mg/L	103	1	70	130	20
PACE_MPLS	10575529	765483	4080175BLANK_10575529	4080175		MB	INITIAL	CdTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:47	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765483	4080176LCS_10575529	4080176		LCS	INITIAL	CdTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:50	EPA 200.8	0	0.1	0.107	0.000016	0.00008	mg/L	107	0	85	115	0
PACE_MPLS	10575529	765483	SWSD0238-081821MS	4080179	SWSD0238-081821	MS	INITIAL	CdTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:49	EPA 200.8	0.0025	0.1	0.113	0.00008	0.0004	mg/L	110	0	70	130	0
PACE_MPLS	10575529	765483	SWSD0230-081821MSD	4080178	SWSD0230-081821	MSD	INITIAL	CdTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:17	EPA 200.8	0.0013	0.1	0.105	0.00008	0.0004	mg/L	103	4	70	130	20
PACE_MPLS	10575529	765483	SWSD0230-081821MS	4080177	SWSD0230-081821	MS	INITIAL	CdTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:07	EPA 200.8	0.0013	0.1	0.109	0.00008	0.0004	mg/L	108	0	70	130	0
PACE_MPLS	10575529	765484	4080180BLANK_10575529	4080180		MB	INITIAL	CdTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:25	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765484	4080181LCS_10575529	4080181		LCS	INITIAL	CdTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:28	EPA 200.8	0	0.1	0.101	0.000016	0.00008	mg/L	101	0	85	115	0
PACE_MPLS	10575529	765484	SWSD0244-081821MSD	4080183	SWSD0244-081821	MSD	INITIAL	CdTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:43	EPA 200.8	0.001	0.1	0.117	0.00008	0.0004	mg/L	116	4	70	130	20

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10575529	765484	SWSD0244-081821MS	4080182	SWSD0244-081821	MS	INITIAL	CdTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:40	EPA 200.8	0.001	0.1	0.113	0.00008	0.0004	mg/L	112	0	70	130	0
PACE_MPLS	10575529	765484	SWSD0254-082021MS	4080184	SWSD0254-082021	MS	INITIAL	CdTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 06:26	EPA 200.8	0.0002	0.1	0.104	0.00008	0.0004	mg/L	103	0	70	130	0
PACE_MPLS	10575529	766686	4085630LCS_10575529	4085630		LCS	INITIAL	CdTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:51	EPA 200.8	0	0.1	0.0997	0.000016	0.00008	mg/L	100	0	85	115	0
PACE_MPLS	10575529	766686	4085708LCSD_10575529	4085708	4085630LCS_10575529	LCSD	INITIAL	CdTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:54	EPA 200.8	0	0.1	0.103	0.000016	0.00008	mg/L	103	3	85	115	20
PACE_MPLS	10575529	766686	4085629BLANK_10575529	4085629		MB	INITIAL	CdTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:47	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765478	SWSD0230-081821MS	4080163	SWSD0230-081821	MS	INITIAL	CuDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-26 01:00	EPA 200.8	0.023	0.1	0.12	0.0025	0.005	mg/L	96	0	70	130	0
PACE_MPLS	10575529	765478	SWSD0238-081821MS	4080165	SWSD0238-081821	MS	INITIAL	CuDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:31	EPA 200.8	0.0046	0.1	0.11	0.0025	0.005	mg/L	102	0	70	130	0
PACE_MPLS	10575529	765478	SWSD0230-081821MSD	4080164	SWSD0230-081821	MSD	INITIAL	CuDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:02	EPA 200.8	0.023	0.1	0.13	0.0025	0.005	mg/L	108	10	70	130	20
PACE_MPLS	10575529	765478	4080162LCS_10575529	4080162		LCS	INITIAL	CuDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:21	EPA 200.8	0	0.1	0.094	0.0005	0.001	mg/L	94	0	85	115	0
PACE_MPLS	10575529	765478	4080161BLANK_10575529	4080161		MB	INITIAL	CuDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:18	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765481	4080169BLANK_10575529	4080169		MB	INITIAL	CuDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:02	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765481	4080170LCS_10575529	4080170		LCS	INITIAL	CuDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:05	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	107	0	85	115	0
PACE_MPLS	10575529	765481	SWSD0244-081821MS	4080171	SWSD0244-081821	MS	INITIAL	CuDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:17	EPA 200.8	0.036	0.1	0.14	0.0005	0.001	mg/L	108	0	70	130	0
PACE_MPLS	10575529	765481	SWSD0244-081821MSD	4080172	SWSD0244-081821	MSD	INITIAL	CuDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:20	EPA 200.8	0.036	0.1	0.14	0.0005	0.001	mg/L	107	0	70	130	20
PACE_MPLS	10575529	765483	4080175BLANK_10575529	4080175		MB	INITIAL	CuTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:47	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765483	4080176LCS_10575529	4080176		LCS	INITIAL	CuTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:50	EPA 200.8	0	0.1	0.105	0.0005	0.001	mg/L	105	0	85	115	0
PACE_MPLS	10575529	765483	SWSD0238-081821MS	4080179	SWSD0238-081821	MS	INITIAL	CuTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:49	EPA 200.8	0.869	0.1	1.01	0.0025	0.005	mg/L	144	0	70	130	0
PACE_MPLS	10575529	765483	SWSD0230-081821MSD	4080178	SWSD0230-081821	MSD	INITIAL	CuTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:17	EPA 200.8	0.12	0.1	0.235	0.0025	0.005	mg/L	114	1	70	130	20
PACE_MPLS	10575529	765483	SWSD0230-081821MS	4080177	SWSD0230-081821	MS	INITIAL	CuTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:07	EPA 200.8	0.12	0.1	0.233	0.0025	0.005	mg/L	113	0	70	130	0
PACE_MPLS	10575529	765484	4080181LCS_10575529	4080181		LCS	INITIAL	CuTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:28	EPA 200.8	0	0.1	0.104	0.0005	0.001	mg/L	104	0	85	115	0
PACE_MPLS	10575529	765484	4080180BLANK_10575529	4080180		MB	INITIAL	CuTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:25	EPA 200.8	0	0	0.0015	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765484	SWSD0244-081821MSD	4080183	SWSD0244-081821	MSD	INITIAL	CuTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:43	EPA 200.8	0.585	0.1	0.758	0.0025	0.005	mg/L	173	12	70	130	20
PACE_MPLS	10575529	765484	SWSD0244-081821MS	4080182	SWSD0244-081821	MS	INITIAL	CuTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:40	EPA 200.8	0.585	0.1	0.674	0.0025	0.005	mg/L	89	0	70	130	0
PACE_MPLS	10575529	765484	SWSD0254-082021MS	4080184	SWSD0254-082021	MS	INITIAL	CuTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 06:26	EPA 200.8	0.0276	0.1	0.133	0.0025	0.005	mg/L	106	0	70	130	0
PACE_MPLS	10575529	766686	4085629BLANK_10575529	4085629		MB	INITIAL	CuTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:47	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	766686	4085708LCSD_10575529	4085708	4085630LCS_10575529	LCSD	INITIAL	CuTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:54	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	110	5	85	115	20
PACE_MPLS	10575529	766686	4085630LCS_10575529	4085630		LCS	INITIAL	CuTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:51	EPA 200.8	0	0.1	0.105	0.0005	0.001	mg/L	105	0	85	115	0
PACE_MPLS	10575529	765478	SWSD0230-081821MS	4080163	SWSD0230-081821	MS	INITIAL	FeDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-26 01:00	EPA 200.8	0.055	2	2.1	0.06	0.25	mg/L	102	0	70	130	0
PACE_MPLS	10575529	765478	SWSD0230-081821MSD	4080164	SWSD0230-081821	MSD	INITIAL	FeDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:02	EPA 200.8	0.055	2	2.1	0.06	0.25	mg/L	104	2	70	130	20
PACE_MPLS	10575529	765478	SWSD0238-081821MS	4080165	SWSD0238-081821	MS	INITIAL	FeDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:31	EPA 200.8	0.46	2	2.5	0.06	0.25	mg/L	103	0	70	130	0
PACE_MPLS	10575529	765478	4080162LCS_10575529	4080162		LCS	INITIAL	FeDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:21	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
PACE_MPLS	10575529	765478	4080161BLANK_10575529	4080161		MB	INITIAL	FeDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:18	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765481	4080169BLANK_10575529	4080169		MB	INITIAL	FeDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:02	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765481	4080170LCS_10575529	4080170		LCS	INITIAL	FeDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:05	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	110	0	85	115	0
PACE_MPLS	10575529	765481	SWSD0244-081821MS	4080171	SWSD0244-081821	MS	INITIAL	FeDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:17	EPA 200.8	0.081	2	2.2	0.012	0.05	mg/L	108	0	70	130	0
PACE_MPLS	10575529	765481	SWSD0244-081821MSD	4080172	SWSD0244-081821	MSD	INITIAL	FeDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:20	EPA 200.8	0.081	2	2.3	0.012	0.05	mg/L	111	3	70	130	20
PACE_MPLS	10575529	765483	SWSD0238-081821MS	4080179	SWSD0238-081821	MS	INITIAL	FeTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:49	EPA 200.8	31.1	2	36.3	0.0605	0.25	mg/L	263	0	70	130	0
PACE_MPLS	10575529	765483	4080175BLANK_10575529	4080175		MB	INITIAL	FeTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:47	EPA 200.8	0	0	0.0504	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765483	4080176LCS_10575529	4080176		LCS	INITIAL	FeTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:50	EPA 200.8	0	2	2.25	0.0121	0.05	mg/L	112	0	85	115	0
PACE_MPLS	10575529	765483	SWSD0230-081821MSD	4080178	SWSD0230-081821	MSD	INITIAL	FeTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:17	EPA 200.8	6.59	2	9.18	0.0605	0.25	mg/L	129	1	70	130	20
PACE_MPLS	10575529	765483	SWSD0230-081821MS	4080177	SWSD0230-081821	MS	INITIAL	FeTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:07	EPA 200.8	6.59	2	9.1	0.0605	0.25	mg/L	125	0	70	130	0
PACE_MPLS	10575529	765484	4080181LCS_10575529	4080181		LCS	INITIAL	FeTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:28	EPA 200.8	0	2	2.16	0.0121	0.05	mg/L	108	0	85	115	0
PACE_MPLS	10575529	765484	4080180BLANK_10575529	4080180		MB	INITIAL	FeTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:25	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765484	SWSD0244-081821MS	4080182	SWSD0244-081821	MS	INITIAL	FeTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:40	EPA 200.8	15.4	2	17.5	0.0605	0.25	mg/L	102	0	70	130	0
PACE_MPLS	10575529	765484	SWSD0244-081821MSD	4080183	SWSD0244-081821	MSD	INITIAL	FeTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:43	EPA 200.8	15.4	2	19.2	0.0605	0.25	mg/L	188	9	70	130	20
PACE_MPLS	10575529	765484	SWSD0254-082021MS	4080184	SWSD0254-082021	MS	INITIAL	FeTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 06:26	EPA 200.8	1.49	2	3.58	0.0605	0.25	mg/L	104	0	70	130	0
PACE_MPLS	10575529	766686	4085630LCS_10575529	4085630		LCS	INITIAL	FeTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:51	EPA 200.8	0	2	2.07	0.0121	0.05	mg/L	103	0	85	115	0
PACE_MPLS	10575529	766686	4085629BLANK_10575529	4085629		MB	INITIAL	FeTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:47	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10575529	766686	4085708LCSD_10575529	4085708	4085630LCS_10575529	LCSD	INITIAL	FeTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:54	EPA 200.8	0	2	2.15	0.0121	0.05	mg/L	108	4	85	115	20
PACE_MPLS	10575529	765485	SWSD0230-081821MS	4080187	SWSD0230-081821	MS	INITIAL	HgDis	D	1	2021-08-24 09:36	EPA 245.1	2021-08-25 05:16	EPA 245.1	0.000008	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
PACE_MPLS	10575529	765485	SWSD0230-081821MSD	4080188	SWSD0230-081821	MSD	INITIAL	HgDis	D	1	2021-08-24 09:36	EPA 245.1	2021-08-25 05:17	EPA 245.1	0.000008	0.005	0.0054	0.000045	0.0002	mg/L	108	4	70	130	20
PACE_MPLS	10575529	765485	4080185BLANK_10575529	4080185		MB	INITIAL	HgDis	D	1	2021-08-24 09:36	EPA 245.1	2021-08-25 05:08	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765485	4080186LCS_10575529	4080186		LCS	INITIAL	HgDis	D	1	2021-08-24 09:36	EPA 245.1	2021-08-25 05:10	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	0	85	115	0
PACE_MPLS	10575529	765485	SWSD0239-081821MS	4080189	SWSD0239-081821	MS	INITIAL	HgDis	D	1	2021-08-24 09:36	EPA 245.1	2021-08-25 05:41	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	70	130	0
PACE_MPLS	10575529	765486	SWSD0244-081821MS	4080192	SWSD0244-081821	MS	INITIAL	HgDis	D	1	2021-08-24 09:36	EPA 245.1	2021-08-25 02:21	EPA 245.1	0.000002	0.005	0.0055	0.000045	0.0002	mg/L	109	0	70	130	0
PACE_MPLS	10575529	765486	SWSD0244-081821MSD	4080193	SWSD0244-081821	MSD	INITIAL	HgDis	D	1	2021-08-24 09:36	EPA 245.1	2021-08-25 02:22	EPA 245.1	0.000002	0.005	0.0051	0.000045	0.0002	mg/L	102	6	70	130	20
PACE_MPLS	10575529	765486	4080190BLANK_10575529	4080190		MB	INITIAL	HgDis	D	1	2021-08-24 09:36	EPA 245.1	2021-08-25 02:16	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765486	4080191LCS_10575529	4080191		LCS	INITIAL	HgDis	D	1	2021-08-24 09:36	EPA 245.1	2021-08-25 02:18	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	85	115	0
PACE_MPLS	10575529	765487	4080194BLANK_10575529	4080194		MB	INITIAL	HgTR	T	1	2021-08-24 08:53	EPA 245.1	2021-08-25 03:21	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10575529	765487	4080195LCS_10575529	4080195		LCS	INITIAL	HgTR	T	1	2021-08-24 08:53	EPA 245.1	2021-08-25 03:22	EPA 245.1	0	0.005	0.0053	0.000045	0.0002	mg/L	106	0	85	115	0
PACE_MPLS	10575529	765487	SWSD0230-081821MSD	4080197	SWSD0230-081821	MSD	INITIAL	HgTR	T	1	2021-08-24 08:53	EPA 245.1	2021-08-25 03:29	EPA 245.1	0.000084	0.005	0.0056	0.000045	0.0002	mg/L	111	1	70	130	20
PACE_MPLS	10575529	765487	SWSD0230-081821MS	4080196	SWSD0230-081821	MS	INITIAL	HgTR	T	1	2021-08-24 08:53	EPA 245.1	2021-08-25 03:28	EPA 245.1	0.000084	0.005	0.0057	0.000045	0.0002	mg/L	112	0	70	130	0
PACE_MPLS	10575529	765487	SWSD0239-081821MS	4080198	SWSD0239-081821	MS	INITIAL	HgTR	T	1	2021-08-24 08:53	EPA 245.1	2021-08-25 03:45	EPA 245.1	0.00021	0.005	0.0053	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10575529	765488	SWSD0244-081821MS	4080201	SWSD0244-081821	MS	INITIAL	HgTR	T	1	2021-08-24 09:36	EPA 245.1	2021-08-25 02:45	EPA 245.1	0.000069	0.005	0.0054	0.000045	0.0002	mg/L	108	0	70	130	0
PACE_MPLS	10575529	765488	SWSD0244-081821MSD	4080202	SWSD0244-081821	MSD	INITIAL	HgTR	T	1	2021-08-24 09:36	EPA 245.1	2021-08-25 02:47	EPA 245.1	0.000069	0.005	0.0052	0.000045	0.0002	mg/L	103	4	70	130	20
PACE_MPLS	10575529	765488	4080199BLANK_10575529	4080199		MB	INITIAL	HgTR	T	1	2021-08-24 09:36	EPA 245.1	2021-08-25 02:41	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765488	4080200LCS_10575529	4080200		LCS	INITIAL	HgTR	T	1	2021-08-24 09:36	EPA 245.1	2021-08-25 02:43	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	103	0	85	115	0
PACE_MPLS	10575529	765478	4080162LCS_10575529	4080162		LCS	INITIAL	PbDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:21	EPA 200.8	0	0.1	0.09	0.000028	0.0001	mg/L	90	0	85	115	0
PACE_MPLS	10575529	765478	4080161BLANK_10575529	4080161		MB	INITIAL	PbDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 12:18	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765478	SWSD0230-081821MSD	4080164	SWSD0230-081821	MSD	INITIAL	PbDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:02	EPA 200.8	0.002	0.1	0.097	0.00014	0.0005	mg/L	95	7	70	130	20
PACE_MPLS	10575529	765478	SWSD0238-081821MS	4080165	SWSD0238-081821	MS	INITIAL	PbDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:31	EPA 200.8	0.0025	0.1	0.099	0.00014	0.0005	mg/L	97	0	70	130	0
PACE_MPLS	10575529	765478	SWSD0230-081821MS	4080163	SWSD0230-081821	MS	INITIAL	PbDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-26 01:00	EPA 200.8	0.002	0.1	0.091	0.00014	0.0005	mg/L	89	0	70	130	0
PACE_MPLS	10575529	765481	4080169BLANK_10575529	4080169		MB	INITIAL	PbDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:02	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765481	4080170LCS_10575529	4080170		LCS	INITIAL	PbDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:05	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	110	0	85	115	0
PACE_MPLS	10575529	765481	SWSD0244-081821MSD	4080172	SWSD0244-081821	MSD	INITIAL	PbDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:20	EPA 200.8	0.00062	0.1	0.11	0.000028	0.0001	mg/L	109	2	70	130	20
PACE_MPLS	10575529	765481	SWSD0244-081821MS	4080171	SWSD0244-081821	MS	INITIAL	PbDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:17	EPA 200.8	0.00062	0.1	0.11	0.000028	0.0001	mg/L	107	0	70	130	0
PACE_MPLS	10575529	765483	4080175BLANK_10575529	4080175		MB	INITIAL	PbTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:47	EPA 200.8	0	0	0.000039	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765483	4080176LCS_10575529	4080176		LCS	INITIAL	PbTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:50	EPA 200.8	0	0.1	0.113	0.000028	0.0001	mg/L	113	0	85	115	0
PACE_MPLS	10575529	765483	SWSD0238-081821MS	4080179	SWSD0238-081821	MS	INITIAL	PbTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:49	EPA 200.8	0.209	0.1	0.353	0.00014	0.0005	mg/L	144	0	70	130	0
PACE_MPLS	10575529	765483	SWSD0230-081821MSD	4080178	SWSD0230-081821	MSD	INITIAL	PbTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:17	EPA 200.8	0.149	0.1	0.266	0.00014	0.0005	mg/L	118	3	70	130	20
PACE_MPLS	10575529	765483	SWSD0230-081821MS	4080177	SWSD0230-081821	MS	INITIAL	PbTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:07	EPA 200.8	0.149	0.1	0.274	0.00014	0.0005	mg/L	126	0	70	130	0
PACE_MPLS	10575529	765484	4080181LCS_10575529	4080181		LCS	INITIAL	PbTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:28	EPA 200.8	0	0.1	0.108	0.000028	0.0001	mg/L	108	0	85	115	0
PACE_MPLS	10575529	765484	4080180BLANK_10575529	4080180		MB	INITIAL	PbTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:25	EPA 200.8	0	0	0.000076	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765484	SWSD0244-081821MS	4080182	SWSD0244-081821	MS	INITIAL	PbTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:40	EPA 200.8	0.0791	0.1	0.197	0.00014	0.0005	mg/L	118	0	70	130	0
PACE_MPLS	10575529	765484	SWSD0244-081821MSD	4080183	SWSD0244-081821	MSD	INITIAL	PbTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:43	EPA 200.8	0.0791	0.1	0.207	0.00014	0.0005	mg/L	128	5	70	130	20
PACE_MPLS	10575529	765484	SWSD0254-082021MS	4080184	SWSD0254-082021	MS	INITIAL	PbTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 06:26	EPA 200.8	0.0129	0.1	0.123	0.00014	0.0005	mg/L	110	0	70	130	0
PACE_MPLS	10575529	766686	4085708LCSD_10575529	4085708	4085630LCS_10575529	LCSD	INITIAL	PbTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:54	EPA 200.8	0	0.1	0.108	0.000028	0.0001	mg/L	108	2	85	115	20
PACE_MPLS	10575529	766686	4085629BLANK_10575529	4085629		MB	INITIAL	PbTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:47	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10575529	766686	4085630LCS_10575529	4085630		LCS	INITIAL	PbTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:51	EPA 200.8	0	0.1	0.105	0.000028	0.0001	mg/L	105	0	85	115	0
PACE_MPLS	10575529	767233	SWSD0230-081821MS	4088535	SWSD0230-081821	MS	INITIAL	SO4	T	2	2021-09-02 01:05	METHOD	2021-09-02 01:05	ASTM D516-90-02	15.9	20	41.8	2.4	5	mg/L	130	0	80	120	0
PACE_MPLS	10575529	767233	4088530BLANK_10575529	4088530		MB	INITIAL	SO4	T	1	2021-09-02 09:19	METHOD	2021-09-02 09:19	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10575529	767233	4088531LCS_10575529	4088531		LCS	INITIAL	SO4	T	1	2021-09-02 09:16	METHOD	2021-09-02 09:16	ASTM D516-90-02	0	20	17.5	1.2	2.5	mg/L	88	0	80	120	0
PACE_MPLS	10575529	767233	4088532LCSD_10575529	4088532	4088531LCS_10575529	LCSD	INITIAL	SO4	T	1	2021-09-02 09:17	METHOD	2021-09-02 09:17	ASTM D516-90-02	0	20	17.4	1.2	2.5	mg/L	87	1	80	120	20
PACE_MPLS	10575529	767233	SWSD0230-081821MSD	4088536	SWSD0230-081821	MSD	INITIAL	SO4	T	2	2021-09-02 01:05	METHOD	2021-09-02 01:05	ASTM D516-90-02	15.9	20	43.8	2.4	5	mg/L	140	5	80	120	30
PACE_MPLS	10575529	767234	4088537BLANK_10575529	4088537		MB	INITIAL	SO4	T	1	2021-09-02 09:19	METHOD	2021-09-02 09:19	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10575529	767234	4088538LCS_10575529	4088538		LCS	INITIAL	SO4	T	1	2021-09-02 09:18	METHOD	2021-09-02 09:18	ASTM D516-90-02	0	20	17.1	1.2	2.5	mg/L	86	0	80	120	0
PACE_MPLS	10575529	767234	4088539LCSD_10575529	4088539	4088538LCS_10575529	LCSD	INITIAL	SO4	T	1	2021-09-02 09:16	METHOD	2021-09-02 09:16	ASTM D516-90-02	0	20	17.8	1.2	2.5	mg/L	89	4	80	120	20
PACE_MPLS	10575529	767234	SWSD0247-082021MS	4088540	SWSD0247-082021	MS	INITIAL	SO4	T	1	2021-09-02 12:17	METHOD	2021-09-02 12:17	ASTM D516-90-02	0	20	23.7	1.2	2.5	mg/L	118	0	80	120	0
PACE_MPLS	10575529	767234	SWSD0247-082021MSD	4088541	SWSD0247-082021	MSD	INITIAL	SO4	T	1	2021-09-02 02:13	METHOD	2021-09-02 02:13	ASTM D516-90-02	0	20	21	1.2	2.5	mg/L	105	12	80	120	30
PACE_MPLS	10575529	765401	SWSD0228-081821DUP	4079715	SWSD0228-081821	LR	INITIAL	TSS	T	1	2021-08-24 09:52	METHOD	2021-08-24 09:52	SM 2540D	79.4	0	80.5	5	10	mg/L	0	1	0	0	5
PACE_MPLS	10575529	765401	SWSD0230-081821DUP	4079716	SWSD0230-081821	LR	INITIAL	TSS	T	1	2021-08-24 09:52	METHOD	2021-08-24 09:52	SM 2540D	194	0	224	5	10	mg/L	0	14	0	0	5
PACE_MPLS	10575529	765401	4079713BLANK_10575529	4079713		MB	INITIAL	TSS	T	1	2021-08-24 09:52	METHOD	2021-08-24 09:52	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765401	4079714LCS_10575529	4079714		LCS	INITIAL	TSS	T	1	2021-08-24 09:52	METHOD	2021-08-24 09:52	SM 2540D	0	100	91.6	10	20	mg/L	92	0	80	120	0
PACE_MPLS	10575529	765773	4081278BLANK_10575529	4081278		MB	INITIAL	TSS	T	1	2021-08-25 12:12	METHOD	2021-08-25 12:12	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765773	4081279LCS_10575529	4081279		LCS	INITIAL	TSS	T	1	2021-08-25 12:12	METHOD	2021-08-25 12:12	SM 2540D	0	100	92.2	10	20	mg/L	92	0	80	120	0
PACE_MPLS	10575529	765478	4080162LCS_10575529	4080162		LCS	REANALYSIS	ZnDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-30 01:41	EPA 200.8	0	0.1	0.093	0.002	0.005	mg/L	93	0	85	115	0
PACE_MPLS	10575529	765478	4080161BLANK_10575529	4080161		MB	REANALYSIS	ZnDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-30 01:38	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765478	SWSD0230-081821MS	4080163	SWSD0230-081821	MS	REANALYSIS	ZnDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 01:59	EPA 200.8	0.059	0.1	0.18	0.0098	0.025	mg/L	122	0	70	130	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10575529	765478	SWSD0238-081821MS	4080165	SWSD0238-081821	MS	INITIAL	ZnDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:31	EPA 200.8	0.0064	0.1	0.1	0.0098	0.025	mg/L	98	0	70	130	0
PACE_MPLS	10575529	765478	SWSD0230-081821MSD	4080164	SWSD0230-081821	MSD	INITIAL	ZnDis	D	5	2021-08-25 06:19	EPA 200.8	2021-08-30 02:02	EPA 200.8	0.059	0.1	0.16	0.0098	0.025	mg/L	103	11	70	130	20
PACE_MPLS	10575529	765481	4080169BLANK_10575529	4080169		MB	INITIAL	ZnDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:02	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765481	4080170LCS_10575529	4080170		LCS	INITIAL	ZnDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:05	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	107	0	85	115	0
PACE_MPLS	10575529	765481	SWSD0244-081821MSD	4080172	SWSD0244-081821	MSD	INITIAL	ZnDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:20	EPA 200.8	0.013	0.1	0.12	0.002	0.005	mg/L	105	1	70	130	20
PACE_MPLS	10575529	765481	SWSD0244-081821MS	4080171	SWSD0244-081821	MS	INITIAL	ZnDis	D	1	2021-08-25 06:19	EPA 200.8	2021-08-26 04:17	EPA 200.8	0.013	0.1	0.12	0.002	0.005	mg/L	105	0	70	130	0
PACE_MPLS	10575529	765483	4080175BLANK_10575529	4080175		MB	INITIAL	ZnTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:47	EPA 200.8	0	0	0.0068	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765483	4080176LCS_10575529	4080176		LCS	INITIAL	ZnTR	T	1	2021-08-25 04:57	EPA 200.8	2021-08-27 12:50	EPA 200.8	0	0.1	0.107	0.002	0.005	mg/L	107	0	85	115	0
PACE_MPLS	10575529	765483	SWSD0238-081821MS	4080179	SWSD0238-081821	MS	INITIAL	ZnTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:49	EPA 200.8	0.964	0.1	1.14	0.0098	0.025	mg/L	172	0	70	130	0
PACE_MPLS	10575529	765483	SWSD0230-081821MS	4080177	SWSD0230-081821	MS	INITIAL	ZnTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:07	EPA 200.8	0.526	0.1	0.618	0.0098	0.025	mg/L	92	0	70	130	0
PACE_MPLS	10575529	765483	SWSD0230-081821MSD	4080178	SWSD0230-081821	MSD	INITIAL	ZnTR	T	5	2021-08-25 04:57	EPA 200.8	2021-08-27 01:17	EPA 200.8	0.526	0.1	0.621	0.0098	0.025	mg/L	94	0	70	130	20
PACE_MPLS	10575529	765484	4080181LCS_10575529	4080181		LCS	INITIAL	ZnTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:28	EPA 200.8	0	0.1	0.105	0.002	0.005	mg/L	105	0	85	115	0
PACE_MPLS	10575529	765484	4080180BLANK_10575529	4080180		MB	INITIAL	ZnTR	T	1	2021-08-25 06:19	EPA 200.8	2021-08-26 05:25	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10575529	765484	SWSD0244-081821MS	4080182	SWSD0244-081821	MS	INITIAL	ZnTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:40	EPA 200.8	0.378	0.1	0.472	0.0098	0.025	mg/L	94	0	70	130	0
PACE_MPLS	10575529	765484	SWSD0244-081821MSD	4080183	SWSD0244-081821	MSD	INITIAL	ZnTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 05:43	EPA 200.8	0.378	0.1	0.506	0.0098	0.025	mg/L	128	7	70	130	20
PACE_MPLS	10575529	765484	SWSD0254-082021MS	4080184	SWSD0254-082021	MS	INITIAL	ZnTR	T	5	2021-08-25 06:19	EPA 200.8	2021-08-26 06:26	EPA 200.8	0.0863	0.1	0.19	0.0098	0.025	mg/L	103	0	70	130	0
PACE_MPLS	10575529	766686	4085708LCSD_10575529	4085708	4085630LCS_10575529	LCSD	INITIAL	ZnTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:54	EPA 200.8	0	0.1	0.106	0.002	0.005	mg/L	106	3	85	115	20
PACE_MPLS	10575529	766686	4085630LCS_10575529	4085630		LCS	INITIAL	ZnTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:51	EPA 200.8	0	0.1	0.103	0.002	0.005	mg/L	103	0	85	115	0
PACE_MPLS	10575529	766686	4085629BLANK_10575529	4085629		MB	INITIAL	ZnTR	T	1	2021-08-30 05:32	EPA 200.8	2021-09-01 12:47	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766495	4084518BLANK_10576049	4084518		MB	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:29	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766495	4084519LCS_10576049	4084519		LCS	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:32	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	101	0	85	115	0
PACE_MPLS	10576049	766495	SWSD0261-082121MS	4084520	SWSD0261-082121	MS	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:11	EPA 200.8	0.0031	0.1	0.11	0.000083	0.0005	mg/L	103	0	70	130	0
PACE_MPLS	10576049	766495	SWSD0261-082121MSD	4084521	SWSD0261-082121	MSD	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:15	EPA 200.8	0.0031	0.1	0.11	0.000083	0.0005	mg/L	104	2	70	130	20
PACE_MPLS	10576049	766495	SWSD0269-082121MS	4084522	SWSD0269-082121	MS	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:01	EPA 200.8	0.005	0.1	0.11	0.000083	0.0005	mg/L	103	0	70	130	0
PACE_MPLS	10576049	766495	SWSD0269-082121MSD	4084523	SWSD0269-082121	MSD	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:04	EPA 200.8	0.005	0.1	0.11	0.000083	0.0005	mg/L	103	0	70	130	20
PACE_MPLS	10576049	766500	SWSD0276-082121MS	4084541	SWSD0276-082121	MS	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:04	EPA 200.8	0.014	0.1	0.11	0.000083	0.0005	mg/L	101	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0276-082121MSD	4084542	SWSD0276-082121	MSD	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:07	EPA 200.8	0.014	0.1	0.11	0.000083	0.0005	mg/L	99	1	70	130	20
PACE_MPLS	10576049	766500	SWSD0288-082121MS	4084543	SWSD0288-082121	MS	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:51	EPA 200.8	0.0064	0.1	0.11	0.000083	0.0005	mg/L	100	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0288-082121MSD	4084544	SWSD0288-082121	MSD	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:54	EPA 200.8	0.0064	0.1	0.11	0.000083	0.0005	mg/L	102	2	70	130	20
PACE_MPLS	10576049	766500	4084540LCS_10576049	4084540		LCS	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	101	0	85	115	0
PACE_MPLS	10576049	766500	4084539BLANK_10576049	4084539		MB	INITIAL	AsDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766503	4084555BLANK_10576049	4084555		MB	INITIAL	AsTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:36	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766503	4084556LCS_10576049	4084556		LCS	INITIAL	AsTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:39	EPA 200.8	0	0.1	0.0961	0.000083	0.0005	mg/L	96	0	85	115	0
PACE_MPLS	10576049	766503	SWSD0261-082121MS	4084557	SWSD0261-082121	MS	INITIAL	AsTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:13	EPA 200.8	0.0048	0.1	0.101	0.000083	0.0005	mg/L	96	0	70	130	0
PACE_MPLS	10576049	766503	SWSD0261-082121MSD	4084558	SWSD0261-082121	MSD	INITIAL	AsTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:16	EPA 200.8	0.0048	0.1	0.101	0.000083	0.0005	mg/L	96	0	70	130	20
PACE_MPLS	10576049	766503	SWSD0269-082121MS	4084559	SWSD0269-082121	MS	INITIAL	AsTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-02 03:55	EPA 200.8	0.0091	0.1	0.11	0.000083	0.0005	mg/L	101	0	70	130	0
PACE_MPLS	10576049	766503	SWSD0269-082121MSD	4084560	SWSD0269-082121	MSD	INITIAL	AsTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:58	EPA 200.8	0.0091	0.1	0.105	0.000083	0.0005	mg/L	96	5	70	130	20
PACE_MPLS	10576049	766505	SWSD0276-082121MS	4084567	SWSD0276-082121	MS	DILUTION	AsTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:23	EPA 200.8	0.0275	0.1	0.117	0.00041	0.0025	mg/L	90	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0288-082121MSD	4084570	SWSD0288-082121	MSD	DILUTION	AsTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:11	EPA 200.8	0.0348	0.1	0.108	0.00041	0.0025	mg/L	73	7	70	130	20
PACE_MPLS	10576049	766505	SWSD0288-082121MS	4084569	SWSD0288-082121	MS	DILUTION	AsTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:09	EPA 200.8	0.0348	0.1	0.116	0.00041	0.0025	mg/L	81	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0276-082121MSD	4084568	SWSD0276-082121	MSD	DILUTION	AsTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:26	EPA 200.8	0.0275	0.1	0.099	0.00041	0.0025	mg/L	72	17	70	130	20
PACE_MPLS	10576049	766505	4084566LCS_10576049	4084566		LCS	INITIAL	AsTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.0907	0.000083	0.0005	mg/L	91	0	85	115	0
PACE_MPLS	10576049	766505	4084565BLANK_10576049	4084565		MB	INITIAL	AsTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	768143	4093361BLANK_10576049	4093361		MB	INITIAL	AsTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:22	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	768143	4093362LCS_10576049	4093362		LCS	INITIAL	AsTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:25	EPA 200.8	0	0.1	0.103	0.000083	0.0005	mg/L	103	0	85	115	0
PACE_MPLS	10576049	768143	SWSD0272-082521MSD	4093364	SWSD0272-082521	MSD	INITIAL	AsTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:42	EPA 200.8	0.000017	0.1	0.108	0.000083	0.0005	mg/L	108	1	70	130	20
PACE_MPLS	10576049	768143	SWSD0272-082521MS	4093363	SWSD0272-082521	MS	INITIAL	AsTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:38	EPA 200.8	0.000017	0.1	0.106	0.000083	0.0005	mg/L	106	0	70	130	0
PACE_MPLS	10576049	766495	SWSD0269-082121MSD	4084523	SWSD0269-082121	MSD	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:04	EPA 200.8	0.000058	0.1	0.1	0.000016	0.00008	mg/L	102	1	70	130	20
PACE_MPLS	10576049	766495	SWSD0269-082121MS	4084522	SWSD0269-082121	MS	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:01	EPA 200.8	0.000058	0.1	0.1	0.000016	0.00008	mg/L	101	0	70	130	0
PACE_MPLS	10576049	766495	SWSD0261-082121MSD	4084521	SWSD0261-082121	MSD	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:15	EPA 200.8	0.00018	0.1	0.1	0.000016	0.00008	mg/L	102	2	70	130	20
PACE_MPLS	10576049	766495	SWSD0261-082121MS	4084520	SWSD0261-082121	MS	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:11	EPA 200.8	0.00018	0.1	0.1	0.000016	0.00008	mg/L	100	0	70	130	0
PACE_MPLS	10576049	766495	4084519LCS_10576049	4084519		LCS	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:32	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	100	0	85	115	0
PACE_MPLS	10576049	766495	4084518BLANK_10576049	4084518		MB	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:29	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766500	4084539BLANK_10576049	4084539		MB	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766500	4084540LCS_10576049	4084540		LCS	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	104	0	85	115	0
PACE_MPLS	10576049	766500	SWSD0276-082121MS	4084541	SWSD0276-082121	MS	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:04	EPA 200.8	0.000096	0.1	0.1	0.000016	0.00008	mg/L	104	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0276-082121MSD	4084542	SWSD0276-082121	MSD	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:07	EPA 200.8	0.000096	0.1	0.1	0.000016	0.00008	mg/L	102	2	70	130	20
PACE_MPLS	10576049	766500	SWSD0288-082121MS	4084543	SWSD0288-082121	MS	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:51	EPA 200.8	0.000056	0.1	0.1	0.000016	0.00008	mg/L	104	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0288-082121MSD	4084544	SWSD0288-082121	MSD	INITIAL	CdDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:54	EPA 200.8	0.000056	0.1	0.11	0.000016	0.00008	mg/L	105	2	70	130	20

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10576049	766503	SWSD0269-082121MSD	4084560	SWSD0269-082121	MSD	INITIAL	CdTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:58	EPA 200.8	0.00033	0.1	0.102	0.000016	0.00008	mg/L	102	4	70	130	20
PACE_MPLS	10576049	766503	SWSD0269-082121MS	4084559	SWSD0269-082121	MS	INITIAL	CdTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-02 03:55	EPA 200.8	0.00033	0.1	0.107	0.000016	0.00008	mg/L	106	0	70	130	0
PACE_MPLS	10576049	766503	4084555BLANK_10576049	4084555		MB	INITIAL	CdTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:36	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766503	4084556LCS_10576049	4084556		LCS	INITIAL	CdTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:39	EPA 200.8	0	0.1	0.0998	0.000016	0.00008	mg/L	100	0	85	115	0
PACE_MPLS	10576049	766503	SWSD0261-082121MSD	4084558	SWSD0261-082121	MSD	INITIAL	CdTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:16	EPA 200.8	0.00028	0.1	0.102	0.000016	0.00008	mg/L	101	0	70	130	20
PACE_MPLS	10576049	766503	SWSD0261-082121MS	4084557	SWSD0261-082121	MS	INITIAL	CdTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:13	EPA 200.8	0.00028	0.1	0.101	0.000016	0.00008	mg/L	101	0	70	130	0
PACE_MPLS	10576049	766505	4084565BLANK_10576049	4084565		MB	INITIAL	CdTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.000024	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766505	4084566LCS_10576049	4084566		LCS	INITIAL	CdTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.0979	0.000016	0.00008	mg/L	98	0	85	115	0
PACE_MPLS	10576049	766505	SWSD0288-082121MSD	4084570	SWSD0288-082121	MSD	DILUTION	CdTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:11	EPA 200.8	0.0023	0.1	0.0824	0.00008	0.0004	mg/L	80	7	70	130	20
PACE_MPLS	10576049	766505	SWSD0288-082121MS	4084569	SWSD0288-082121	MS	DILUTION	CdTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:09	EPA 200.8	0.0023	0.1	0.0884	0.00008	0.0004	mg/L	86	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0276-082121MS	4084567	SWSD0276-082121	MS	DILUTION	CdTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:23	EPA 200.8	0.00093	0.1	0.0946	0.00008	0.0004	mg/L	94	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0276-082121MSD	4084568	SWSD0276-082121	MSD	DILUTION	CdTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:26	EPA 200.8	0.00093	0.1	0.0792	0.00008	0.0004	mg/L	78	18	70	130	20
PACE_MPLS	10576049	768143	SWSD0272-082521MSD	4093364	SWSD0272-082521	MSD	INITIAL	CdTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:42	EPA 200.8	0.000021	0.1	0.113	0.000016	0.00008	mg/L	113	3	70	130	20
PACE_MPLS	10576049	768143	SWSD0272-082521MS	4093363	SWSD0272-082521	MS	INITIAL	CdTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:38	EPA 200.8	0.000021	0.1	0.11	0.000016	0.00008	mg/L	110	0	70	130	0
PACE_MPLS	10576049	768143	4093362LCS_10576049	4093362		LCS	INITIAL	CdTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:25	EPA 200.8	0	0.1	0.107	0.000016	0.00008	mg/L	107	0	85	115	0
PACE_MPLS	10576049	768143	4093361BLANK_10576049	4093361		MB	INITIAL	CdTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:22	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766495	SWSD0261-082121MS	4084520	SWSD0261-082121	MS	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:11	EPA 200.8	0.0087	0.1	0.11	0.0005	0.001	mg/L	105	0	70	130	0
PACE_MPLS	10576049	766495	4084519LCS_10576049	4084519		LCS	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:32	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	107	0	85	115	0
PACE_MPLS	10576049	766495	4084518BLANK_10576049	4084518		MB	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:29	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766495	SWSD0269-082121MSD	4084523	SWSD0269-082121	MSD	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:04	EPA 200.8	0.017	0.1	0.12	0.0005	0.001	mg/L	107	1	70	130	20
PACE_MPLS	10576049	766495	SWSD0269-082121MS	4084522	SWSD0269-082121	MS	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:01	EPA 200.8	0.017	0.1	0.13	0.0005	0.001	mg/L	109	0	70	130	0
PACE_MPLS	10576049	766495	SWSD0261-082121MSD	4084521	SWSD0261-082121	MSD	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:15	EPA 200.8	0.0087	0.1	0.12	0.0005	0.001	mg/L	108	2	70	130	20
PACE_MPLS	10576049	766500	SWSD0276-082121MS	4084541	SWSD0276-082121	MS	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:04	EPA 200.8	0.024	0.1	0.13	0.0005	0.001	mg/L	106	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0276-082121MSD	4084542	SWSD0276-082121	MSD	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:07	EPA 200.8	0.024	0.1	0.13	0.0005	0.001	mg/L	106	0	70	130	20
PACE_MPLS	10576049	766500	SWSD0288-082121MS	4084543	SWSD0288-082121	MS	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:51	EPA 200.8	0.015	0.1	0.12	0.0005	0.001	mg/L	110	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0288-082121MSD	4084544	SWSD0288-082121	MSD	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:54	EPA 200.8	0.015	0.1	0.12	0.0005	0.001	mg/L	109	0	70	130	20
PACE_MPLS	10576049	766500	4084539BLANK_10576049	4084539		MB	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766500	4084540LCS_10576049	4084540		LCS	INITIAL	CuDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	114	0	85	115	0
PACE_MPLS	10576049	766503	4084555BLANK_10576049	4084555		MB	INITIAL	CuTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:36	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766503	4084556LCS_10576049	4084556		LCS	INITIAL	CuTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:39	EPA 200.8	0	0.1	0.0995	0.0005	0.001	mg/L	99	0	85	115	0
PACE_MPLS	10576049	766503	SWSD0261-082121MS	4084557	SWSD0261-082121	MS	INITIAL	CuTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:13	EPA 200.8	0.0256	0.1	0.123	0.0005	0.001	mg/L	98	0	70	130	0
PACE_MPLS	10576049	766503	SWSD0261-082121MSD	4084558	SWSD0261-082121	MSD	INITIAL	CuTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:16	EPA 200.8	0.0256	0.1	0.123	0.0005	0.001	mg/L	97	1	70	130	20
PACE_MPLS	10576049	766503	SWSD0269-082121MS	4084559	SWSD0269-082121	MS	INITIAL	CuTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-02 03:55	EPA 200.8	0.111	0.1	0.232	0.0005	0.001	mg/L	121	0	70	130	0
PACE_MPLS	10576049	766503	SWSD0269-082121MSD	4084560	SWSD0269-082121	MSD	INITIAL	CuTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:58	EPA 200.8	0.111	0.1	0.217	0.0005	0.001	mg/L	105	7	70	130	20
PACE_MPLS	10576049	766505	SWSD0276-082121MS	4084567	SWSD0276-082121	MS	DILUTION	CuTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:23	EPA 200.8	0.132	0.1	0.235	0.0025	0.005	mg/L	103	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0288-082121MSD	4084570	SWSD0288-082121	MSD	DILUTION	CuTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:11	EPA 200.8	0.228	0.1	0.295	0.0025	0.005	mg/L	67	11	70	130	20
PACE_MPLS	10576049	766505	SWSD0288-082121MS	4084569	SWSD0288-082121	MS	DILUTION	CuTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:09	EPA 200.8	0.228	0.1	0.328	0.0025	0.005	mg/L	101	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0276-082121MSD	4084568	SWSD0276-082121	MSD	DILUTION	CuTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:26	EPA 200.8	0.132	0.1	0.203	0.0025	0.005	mg/L	71	15	70	130	20
PACE_MPLS	10576049	766505	4084566LCS_10576049	4084566		LCS	INITIAL	CuTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.097	0.0005	0.001	mg/L	97	0	85	115	0
PACE_MPLS	10576049	766505	4084565BLANK_10576049	4084565		MB	INITIAL	CuTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	768143	4093362LCS_10576049	4093362		LCS	INITIAL	CuTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:25	EPA 200.8	0	0.1	0.11	0.0005	0.001	mg/L	110	0	85	115	0
PACE_MPLS	10576049	768143	4093361BLANK_10576049	4093361		MB	INITIAL	CuTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:22	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	768143	SWSD0272-082521MSD	4093364	SWSD0272-082521	MSD	INITIAL	CuTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:42	EPA 200.8	0.00021	0.1	0.114	0.0005	0.001	mg/L	114	1	70	130	20
PACE_MPLS	10576049	768143	SWSD0272-082521MS	4093363	SWSD0272-082521	MS	INITIAL	CuTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:38	EPA 200.8	0.00021	0.1	0.112	0.0005	0.001	mg/L	112	0	70	130	0
PACE_MPLS	10576049	766495	SWSD0269-082121MSD	4084523	SWSD0269-082121	MSD	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:04	EPA 200.8	0.069	2	2.2	0.012	0.05	mg/L	106	0	70	130	20
PACE_MPLS	10576049	766495	SWSD0269-082121MS	4084522	SWSD0269-082121	MS	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:01	EPA 200.8	0.069	2	2.2	0.012	0.05	mg/L	106	0	70	130	0
PACE_MPLS	10576049	766495	SWSD0261-082121MSD	4084521	SWSD0261-082121	MSD	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:15	EPA 200.8	0.28	2	2.4	0.012	0.05	mg/L	107	1	70	130	20
PACE_MPLS	10576049	766495	SWSD0261-082121MS	4084520	SWSD0261-082121	MS	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:11	EPA 200.8	0.28	2	2.4	0.012	0.05	mg/L	105	0	70	130	0
PACE_MPLS	10576049	766495	4084519LCS_10576049	4084519		LCS	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:32	EPA 200.8	0	2	2.1	0.012	0.05	mg/L	103	0	85	115	0
PACE_MPLS	10576049	766495	4084518BLANK_10576049	4084518		MB	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:29	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766500	4084539BLANK_10576049	4084539		MB	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766500	4084540LCS_10576049	4084540		LCS	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	108	0	85	115	0
PACE_MPLS	10576049	766500	SWSD0276-082121MS	4084541	SWSD0276-082121	MS	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:04	EPA 200.8	0.033	2	2.2	0.012	0.05	mg/L	108	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0276-082121MSD	4084542	SWSD0276-082121	MSD	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:07	EPA 200.8	0.033	2	2.1	0.012	0.05	mg/L	104	4	70	130	20
PACE_MPLS	10576049	766500	SWSD0288-082121MSD	4084544	SWSD0288-082121	MSD	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:54	EPA 200.8	0.048	2	2.2	0.012	0.05	mg/L	108	1	70	130	20
PACE_MPLS	10576049	766500	SWSD0288-082121MS	4084543	SWSD0288-082121	MS	INITIAL	FeDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:51	EPA 200.8	0.048	2	2.2	0.012	0.05	mg/L	107	0	70	130	0
PACE_MPLS	10576049	766503	SWSD0261-082121MSD	4084558	SWSD0261-082121	MSD	INITIAL	FeTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:16	EPA 200.8	1.58	2	3.57	0.0121	0.05	mg/L	99	1	70	130	20
PACE_MPLS	10576049	766503	SWSD0269-082121MSD	4084560	SWSD0269-082121	MSD	INITIAL	FeTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:58	EPA 200.8	4.18	2	6.56	0.0121	0.05	mg/L	119	2	70	130	20
PACE_MPLS	10576049	766503	SWSD0269-082121MS	4084559	SWSD0269-082121	MS	INITIAL	FeTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-02 03:55	EPA 200.8	4.18	2	6.66	0.0121	0.05	mg/L	124	0	70	130	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10576049	766503	4084555BLANK_10576049	4084555		MB	INITIAL	FeTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:36	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766503	4084556LCS_10576049	4084556		LCS	INITIAL	FeTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:39	EPA 200.8	0	2	2.07	0.0121	0.05	mg/L	103	0	85	115	0
PACE_MPLS	10576049	766503	SWSD0261-082121MS	4084557	SWSD0261-082121	MS	INITIAL	FeTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:13	EPA 200.8	1.58	2	3.62	0.0121	0.05	mg/L	102	0	70	130	0
PACE_MPLS	10576049	766505	4084566LCS_10576049	4084566		LCS	INITIAL	FeTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	2	2.09	0.0121	0.05	mg/L	105	0	85	115	0
PACE_MPLS	10576049	766505	4084565BLANK_10576049	4084565		MB	INITIAL	FeTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766505	SWSD0276-082121MS	4084567	SWSD0276-082121	MS	DILUTION	FeTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:23	EPA 200.8	10.1	2	12.7	0.0605	0.25	mg/L	132	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0288-082121MS	4084569	SWSD0288-082121	MS	DILUTION	FeTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:09	EPA 200.8	21	2	27.3	0.0605	0.25	mg/L	315	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0276-082121MSD	4084568	SWSD0276-082121	MSD	DILUTION	FeTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:26	EPA 200.8	10.1	2	10.9	0.0605	0.25	mg/L	42	15	70	130	20
PACE_MPLS	10576049	766505	SWSD0288-082121MSD	4084570	SWSD0288-082121	MSD	DILUTION	FeTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:11	EPA 200.8	21	2	22.6	0.0605	0.25	mg/L	81	19	70	130	20
PACE_MPLS	10576049	768143	SWSD0272-082521MS	4093363	SWSD0272-082521	MS	INITIAL	FeTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:38	EPA 200.8	0	2	2.1	0.0121	0.05	mg/L	105	0	70	130	0
PACE_MPLS	10576049	768143	SWSD0272-082521MSD	4093364	SWSD0272-082521	MSD	INITIAL	FeTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:42	EPA 200.8	0	2	2.14	0.0121	0.05	mg/L	107	2	70	130	20
PACE_MPLS	10576049	768143	4093361BLANK_10576049	4093361		MB	INITIAL	FeTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:22	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10576049	768143	4093362LCS_10576049	4093362		LCS	INITIAL	FeTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:25	EPA 200.8	0	2	2.06	0.0121	0.05	mg/L	103	0	85	115	0
PACE_MPLS	10576049	766484	SWSD0261-082121MS	4084459	SWSD0261-082121	MS	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:23	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	96	0	70	130	0
PACE_MPLS	10576049	766484	4084457BLANK_10576049	4084457		MB	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:09	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766484	4084458LCS_10576049	4084458		LCS	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:10	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	96	0	85	115	0
PACE_MPLS	10576049	766484	SWSD0269-082121MSD	4084462	SWSD0269-082121	MSD	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:42	EPA 245.1	0	0.005	0.0047	0.000045	0.0002	mg/L	94	4	70	130	20
PACE_MPLS	10576049	766484	SWSD0269-082121MS	4084461	SWSD0269-082121	MS	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:41	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	98	0	70	130	0
PACE_MPLS	10576049	766484	SWSD0261-082121MSD	4084460	SWSD0261-082121	MSD	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:25	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	97	1	70	130	20
PACE_MPLS	10576049	766485	SWSD0288-082121MSD	4084471	SWSD0288-082121	MSD	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 06:27	EPA 245.1	0	0.005	0.0049	0.000045	0.0002	mg/L	98	2	70	130	20
PACE_MPLS	10576049	766485	SWSD0276-082121MSD	4084469	SWSD0276-082121	MSD	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 06:02	EPA 245.1	0	0.005	0.0047	0.000045	0.0002	mg/L	94	5	70	130	20
PACE_MPLS	10576049	766485	SWSD0276-082121MS	4084468	SWSD0276-082121	MS	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 06:01	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	70	130	0
PACE_MPLS	10576049	766485	SWSD0288-082121MS	4084470	SWSD0288-082121	MS	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 06:26	EPA 245.1	0	0.005	0.0048	0.000045	0.0002	mg/L	96	0	70	130	0
PACE_MPLS	10576049	766485	4084466BLANK_10576049	4084466		MB	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:57	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766485	4084467LCS_10576049	4084467		LCS	INITIAL	HgDis	D	1	2021-08-27 10:43	EPA 245.1	2021-09-01 05:58	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	101	0	85	115	0
PACE_MPLS	10576049	766489	4084485BLANK_10576049	4084485		MB	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-07 03:02	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766489	4084486LCS_10576049	4084486		LCS	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-07 03:04	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	85	115	0
PACE_MPLS	10576049	766489	SWSD0261-082121MSD	4084488	SWSD0261-082121	MSD	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-07 03:18	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	99	1	70	130	20
PACE_MPLS	10576049	766489	SWSD0261-082121MS	4084487	SWSD0261-082121	MS	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-07 03:14	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	101	0	70	130	0
PACE_MPLS	10576049	766489	SWSD0269-082121MS	4084489	SWSD0269-082121	MS	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-07 03:34	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10576049	766489	SWSD0269-082121MSD	4084490	SWSD0269-082121	MSD	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-07 03:36	EPA 245.1	0	0.005	0.0052	0.000045	0.0002	mg/L	103	1	70	130	20
PACE_MPLS	10576049	766491	SWSD0288-082121MS	4084502	SWSD0288-082121	MS	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-08 02:53	EPA 245.1	0.00014	0.005	0.0055	0.000045	0.0002	mg/L	108	0	70	130	0
PACE_MPLS	10576049	766491	SWSD0276-082121MS	4084500	SWSD0276-082121	MS	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-08 02:27	EPA 245.1	0.00012	0.005	0.0053	0.000045	0.0002	mg/L	104	0	70	130	0
PACE_MPLS	10576049	766491	SWSD0276-082121MSD	4084501	SWSD0276-082121	MSD	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-08 02:28	EPA 245.1	0.00012	0.005	0.0054	0.000045	0.0002	mg/L	104	0	70	130	20
PACE_MPLS	10576049	766491	SWSD0288-082121MSD	4084503	SWSD0288-082121	MSD	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-08 02:55	EPA 245.1	0.00014	0.005	0.0052	0.000045	0.0002	mg/L	102	6	70	130	20
PACE_MPLS	10576049	766491	4084498BLANK_10576049	4084498		MB	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-08 02:23	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766491	4084499LCS_10576049	4084499		LCS	INITIAL	HgTR	T	1	2021-08-27 02:42	EPA 245.1	2021-09-08 02:24	EPA 245.1	0	0.005	0.0055	0.000045	0.0002	mg/L	109	0	85	115	0
PACE_MPLS	10576049	766495	4084518BLANK_10576049	4084518		MB	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:29	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766495	SWSD0261-082121MS	4084520	SWSD0261-082121	MS	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:11	EPA 200.8	0.0011	0.1	0.11	0.000028	0.0001	mg/L	106	0	70	130	0
PACE_MPLS	10576049	766495	4084519LCS_10576049	4084519		LCS	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:32	EPA 200.8	0	0.1	0.11	0.000028	0.0001	mg/L	106	0	85	115	0
PACE_MPLS	10576049	766495	SWSD0269-082121MSD	4084523	SWSD0269-082121	MSD	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:04	EPA 200.8	0.00054	0.1	0.11	0.000028	0.0001	mg/L	109	1	70	130	20
PACE_MPLS	10576049	766495	SWSD0269-082121MS	4084522	SWSD0269-082121	MS	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:01	EPA 200.8	0.00054	0.1	0.11	0.000028	0.0001	mg/L	110	0	70	130	0
PACE_MPLS	10576049	766495	SWSD0261-082121MSD	4084521	SWSD0261-082121	MSD	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:15	EPA 200.8	0.0011	0.1	0.11	0.000028	0.0001	mg/L	111	5	70	130	20
PACE_MPLS	10576049	766500	SWSD0276-082121MS	4084541	SWSD0276-082121	MS	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:04	EPA 200.8	0.00086	0.1	0.1	0.000028	0.0001	mg/L	102	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0276-082121MSD	4084542	SWSD0276-082121	MSD	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:07	EPA 200.8	0.00086	0.1	0.1	0.000028	0.0001	mg/L	101	1	70	130	20
PACE_MPLS	10576049	766500	SWSD0288-082121MSD	4084544	SWSD0288-082121	MSD	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:54	EPA 200.8	0.0007	0.1	0.1	0.000028	0.0001	mg/L	104	2	70	130	20
PACE_MPLS	10576049	766500	SWSD0288-082121MS	4084543	SWSD0288-082121	MS	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:51	EPA 200.8	0.0007	0.1	0.1	0.000028	0.0001	mg/L	102	0	70	130	0
PACE_MPLS	10576049	766500	4084540LCS_10576049	4084540		LCS	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	104	0	85	115	0
PACE_MPLS	10576049	766500	4084539BLANK_10576049	4084539		MB	INITIAL	PbDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766503	4084556LCS_10576049	4084556		LCS	INITIAL	PbTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:39	EPA 200.8	0	0.1	0.108	0.000028	0.0001	mg/L	108	0	85	115	0
PACE_MPLS	10576049	766503	4084555BLANK_10576049	4084555		MB	INITIAL	PbTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:36	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766503	SWSD0261-082121MS	4084557	SWSD0261-082121	MS	INITIAL	PbTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:13	EPA 200.8	0.0086	0.1	0.116	0.000028	0.0001	mg/L	108	0	70	130	0
PACE_MPLS	10576049	766503	SWSD0261-082121MSD	4084558	SWSD0261-082121	MSD	INITIAL	PbTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:16	EPA 200.8	0.0086	0.1	0.118	0.000028	0.0001	mg/L	109	1	70	130	20
PACE_MPLS	10576049	766503	SWSD0269-082121MS	4084559	SWSD0269-082121	MS	INITIAL	PbTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-02 03:55	EPA 200.8	0.0293	0.1	0.136	0.000028	0.0001	mg/L	106	0	70	130	0
PACE_MPLS	10576049	766503	SWSD0269-082121MSD	4084560	SWSD0269-082121	MSD	INITIAL	PbTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:58	EPA 200.8	0.0293	0.1	0.14	0.000028	0.0001	mg/L	111	3	70	130	20
PACE_MPLS	10576049	766505	SWSD0276-082121MS	4084567	SWSD0276-082121	MS	DILUTION	PbTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:23	EPA 200.8	0.0963	0.1	0.195	0.00014	0.0005	mg/L	98	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0288-082121MS	4084569	SWSD0288-082121	MS	DILUTION	PbTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:09	EPA 200.8	0.202	0.1	0.296	0.00014	0.0005	mg/L	94	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0276-082121MSD	4084568	SWSD0276-082121	MSD	DILUTION	PbTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 07:26	EPA 200.8	0.0963	0.1	0.168	0.00014	0.0005	mg/L	72	15	70	130	20
PACE_MPLS	10576049	766505	SWSD0288-082121MSD	4084570	SWSD0288-082121	MSD	DILUTION	PbTR	T	5	2021-08-27 01:36	EPA 200.8	2021-09-07 08:11	EPA 200.8	0.202	0.1	0.273	0.00014	0.0005	mg/L	71	8	70	130	20

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10576049	766505	4084565BLANK_10576049	4084565		MB	INITIAL	PbTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766505	4084566LCS_10576049	4084566		LCS	INITIAL	PbTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.0982	0.000028	0.0001	mg/L	98	0	85	115	0
PACE_MPLS	10576049	768143	4093362LCS_10576049	4093362		LCS	INITIAL	PbTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:25	EPA 200.8	0	0.1	0.108	0.000028	0.0001	mg/L	108	0	85	115	0
PACE_MPLS	10576049	768143	4093361BLANK_10576049	4093361		MB	INITIAL	PbTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:22	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10576049	768143	SWSD0272-082521MSD	4093364	SWSD0272-082521	MSD	INITIAL	PbTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:42	EPA 200.8	0.0001	0.1	0.114	0.000028	0.0001	mg/L	114	3	70	130	20
PACE_MPLS	10576049	768143	SWSD0272-082521MS	4093363	SWSD0272-082521	MS	INITIAL	PbTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:38	EPA 200.8	0.0001	0.1	0.111	0.000028	0.0001	mg/L	111	0	70	130	0
PACE_MPLS	10576049	767235	4088542BLANK_10576049	4088542		MB	INITIAL	SO4	T	1	2021-09-02 04:28	METHOD	2021-09-02 04:28	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10576049	767235	4088543LCS_10576049	4088543		LCS	INITIAL	SO4	T	1	2021-09-02 04:23	METHOD	2021-09-02 04:23	ASTM D516-90-02	0	20	18.5	1.2	2.5	mg/L	93	0	80	120	0
PACE_MPLS	10576049	767235	4088544LCSD_10576049	4088544	4088543LCS_10576049	LCSD	INITIAL	SO4	T	1	2021-09-02 04:25	METHOD	2021-09-02 04:25	ASTM D516-90-02	0	20	17.6	1.2	2.5	mg/L	88	5	80	120	20
PACE_MPLS	10576049	767239	4088554BLANK_10576049	4088554		MB	INITIAL	SO4	T	1	2021-09-02 04:28	METHOD	2021-09-02 04:28	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10576049	767239	4088555LCS_10576049	4088555		LCS	INITIAL	SO4	T	1	2021-09-02 04:25	METHOD	2021-09-02 04:25	ASTM D516-90-02	0	20	17.9	1.2	2.5	mg/L	89	0	80	120	0
PACE_MPLS	10576049	767239	4088556LCSD_10576049	4088556	4088555LCS_10576049	LCSD	INITIAL	SO4	T	1	2021-09-02 04:26	METHOD	2021-09-02 04:26	ASTM D516-90-02	0	20	19.2	1.2	2.5	mg/L	96	7	80	120	20
PACE_MPLS	10576049	767239	SWSD0261-082121MS	4088557	SWSD0261-082121	MS	INITIAL	SO4	T	10	2021-09-02 04:42	METHOD	2021-09-02 04:42	ASTM D516-90-02	59	40	88.6	12.1	25	mg/L	74	0	80	120	0
PACE_MPLS	10576049	767239	SWSD0261-082121MSD	4088558	SWSD0261-082121	MSD	INITIAL	SO4	T	10	2021-09-02 04:42	METHOD	2021-09-02 04:42	ASTM D516-90-02	59	40	96	12.1	25	mg/L	93	8	80	120	30
PACE_MPLS	10576049	767239	SWSD0269-082121MSD	4088560	SWSD0269-082121	MSD	INITIAL	SO4	T	1	2021-09-02 04:09	METHOD	2021-09-02 04:09	ASTM D516-90-02	5.7	20	30.1	1.2	2.5	mg/L	122	1	80	120	30
PACE_MPLS	10576049	767239	SWSD0269-082121MS	4088559	SWSD0269-082121	MS	INITIAL	SO4	T	1	2021-09-02 04:08	METHOD	2021-09-02 04:08	ASTM D516-90-02	5.7	20	30.4	1.2	2.5	mg/L	123	0	80	120	0
PACE_MPLS	10576049	767242	SWSD0281-082121MS	4088564	SWSD0281-082121	MS	INITIAL	SO4	T	10	2021-09-02 05:11	METHOD	2021-09-02 05:11	ASTM D516-90-02	20	40	101	12.1	25	mg/L	203	0	80	120	0
PACE_MPLS	10576049	767242	SWSD0281-082121MSD	4088565	SWSD0281-082121	MSD	INITIAL	SO4	T	10	2021-09-02 05:11	METHOD	2021-09-02 05:11	ASTM D516-90-02	20	40	81.4	12.1	25	mg/L	154	22	80	120	30
PACE_MPLS	10576049	767242	4088561BLANK_10576049	4088561		MB	INITIAL	SO4	T	1	2021-09-02 04:27	METHOD	2021-09-02 04:27	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10576049	767242	4088562LCS_10576049	4088562		LCS	INITIAL	SO4	T	1	2021-09-02 04:26	METHOD	2021-09-02 04:26	ASTM D516-90-02	0	20	17.9	1.2	2.5	mg/L	90	0	80	120	0
PACE_MPLS	10576049	767242	4088563LCSD_10576049	4088563	4088562LCS_10576049	LCSD	INITIAL	SO4	T	1	2021-09-02 04:27	METHOD	2021-09-02 04:27	ASTM D516-90-02	0	20	17.6	1.2	2.5	mg/L	88	2	80	120	20
PACE_MPLS	10576049	766367	SWSD0261-082121DUP	4083894	SWSD0261-082121	LR	INITIAL	TSS	T	1	2021-08-27 04:56	METHOD	2021-08-27 04:56	SM 2540D	27.6	0	26.1	5	10	mg/L	0	6	0	0	5
PACE_MPLS	10576049	766367	4083892BLANK_10576049	4083892		MB	INITIAL	TSS	T	1	2021-08-27 04:56	METHOD	2021-08-27 04:56	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766367	4083893LCS_10576049	4083893		LCS	INITIAL	TSS	T	1	2021-08-27 04:56	METHOD	2021-08-27 04:56	SM 2540D	0	100	98.6	10	20	mg/L	99	0	80	120	0
PACE_MPLS	10576049	766367	SWSD0269-082121DUP	4083895	SWSD0269-082121	LR	INITIAL	TSS	T	1	2021-08-27 04:56	METHOD	2021-08-27 04:56	SM 2540D	184	0	182	5	10	mg/L	0	1	0	0	5
PACE_MPLS	10576049	766423	SWSD0276-082121DUP	4084108	SWSD0276-082121	LR	INITIAL	TSS	T	1	2021-08-27 03:27	METHOD	2021-08-27 03:27	SM 2540D	286	0	287	5	10	mg/L	0	0	0	0	5
PACE_MPLS	10576049	766423	4084106BLANK_10576049	4084106		MB	INITIAL	TSS	T	1	2021-08-27 03:27	METHOD	2021-08-27 03:27	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766423	4084107LCS_10576049	4084107		LCS	INITIAL	TSS	T	1	2021-08-27 03:27	METHOD	2021-08-27 03:27	SM 2540D	0	100	99.6	10	20	mg/L	100	0	80	120	0
PACE_MPLS	10576049	767291	4089036BLANK_10576049	4089036		MB	INITIAL	TSS	T	1	2021-08-31 04:17	METHOD	2021-08-31 04:17	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10576049	767291	4089037LCS_10576049	4089037		LCS	INITIAL	TSS	T	1	2021-08-31 04:17	METHOD	2021-08-31 04:17	SM 2540D	0	100	80.4	10	20	mg/L	80	0	80	120	0
PACE_MPLS	10576049	766495	SWSD0261-082121MS	4084520	SWSD0261-082121	MS	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:11	EPA 200.8	0.22	0.1	0.32	0.002	0.005	mg/L	100	0	70	130	0
PACE_MPLS	10576049	766495	4084519LCS_10576049	4084519		LCS	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:32	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	103	0	85	115	0
PACE_MPLS	10576049	766495	4084518BLANK_10576049	4084518		MB	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 01:29	EPA 200.8	0	0	0.0023	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766495	SWSD0269-082121MSD	4084523	SWSD0269-082121	MSD	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:04	EPA 200.8	0.015	0.1	0.12	0.002	0.005	mg/L	103	1	70	130	20
PACE_MPLS	10576049	766495	SWSD0269-082121MS	4084522	SWSD0269-082121	MS	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 03:01	EPA 200.8	0.015	0.1	0.12	0.002	0.005	mg/L	104	0	70	130	0
PACE_MPLS	10576049	766495	SWSD0261-082121MSD	4084521	SWSD0261-082121	MSD	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-02 02:15	EPA 200.8	0.22	0.1	0.33	0.002	0.005	mg/L	103	1	70	130	20
PACE_MPLS	10576049	766500	SWSD0276-082121MS	4084541	SWSD0276-082121	MS	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:04	EPA 200.8	0.0078	0.1	0.11	0.002	0.005	mg/L	104	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0276-082121MSD	4084542	SWSD0276-082121	MSD	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 08:07	EPA 200.8	0.0078	0.1	0.11	0.002	0.005	mg/L	103	1	70	130	20
PACE_MPLS	10576049	766500	SWSD0288-082121MS	4084543	SWSD0288-082121	MS	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:51	EPA 200.8	0.017	0.1	0.12	0.002	0.005	mg/L	101	0	70	130	0
PACE_MPLS	10576049	766500	SWSD0288-082121MSD	4084544	SWSD0288-082121	MSD	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 09:54	EPA 200.8	0.017	0.1	0.12	0.002	0.005	mg/L	102	1	70	130	20
PACE_MPLS	10576049	766500	4084539BLANK_10576049	4084539		MB	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:48	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766500	4084540LCS_10576049	4084540		LCS	INITIAL	ZnDis	D	1	2021-08-27 12:57	EPA 200.8	2021-09-03 07:51	EPA 200.8	0	0.1	0.11	0.002	0.005	mg/L	108	0	85	115	0
PACE_MPLS	10576049	766503	4084555BLANK_10576049	4084555		MB	INITIAL	ZnTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:36	EPA 200.8	0	0	0.0031	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	766503	4084556LCS_10576049	4084556		LCS	INITIAL	ZnTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 01:39	EPA 200.8	0	0.1	0.101	0.002	0.005	mg/L	101	0	85	115	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10576049	766503	SWSD0261-082121MS	4084557	SWSD0261-082121	MS	INITIAL	ZnTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:13	EPA 200.8	0.288	0.1	0.38	0.002	0.005	mg/L	93	0	70	130	0
PACE_MPLS	10576049	766503	SWSD0261-082121MSD	4084558	SWSD0261-082121	MSD	INITIAL	ZnTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:16	EPA 200.8	0.288	0.1	0.375	0.002	0.005	mg/L	88	1	70	130	20
PACE_MPLS	10576049	766503	SWSD0269-082121MSD	4084560	SWSD0269-082121	MSD	INITIAL	ZnTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-01 02:58	EPA 200.8	0.128	0.1	0.229	0.002	0.005	mg/L	100	7	70	130	20
PACE_MPLS	10576049	766503	SWSD0269-082121MS	4084559	SWSD0269-082121	MS	INITIAL	ZnTR	T	1	2021-08-27 01:48	EPA 200.8	2021-09-02 03:55	EPA 200.8	0.128	0.1	0.246	0.002	0.005	mg/L	118	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0276-082121MS	4084567	SWSD0276-082121	MS	INITIAL	ZnTR	T	10	2021-08-27 01:36	EPA 200.8	2021-09-01 11:38	EPA 200.8	0.238	0.1	0.307	0.0197	0.05	mg/L	70	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0288-082121MSD	4084570	SWSD0288-082121	MSD	INITIAL	ZnTR	T	10	2021-08-27 01:36	EPA 200.8	2021-09-02 12:39	EPA 200.8	0.656	0.1	0.721	0.0197	0.05	mg/L	65	7	70	130	20
PACE_MPLS	10576049	766505	SWSD0288-082121MS	4084569	SWSD0288-082121	MS	INITIAL	ZnTR	T	10	2021-08-27 01:36	EPA 200.8	2021-09-02 12:36	EPA 200.8	0.656	0.1	0.775	0.0197	0.05	mg/L	119	0	70	130	0
PACE_MPLS	10576049	766505	SWSD0276-082121MSD	4084568	SWSD0276-082121	MSD	INITIAL	ZnTR	T	10	2021-08-27 01:36	EPA 200.8	2021-09-01 11:41	EPA 200.8	0.238	0.1	0.285	0.0197	0.05	mg/L	47	8	70	130	20
PACE_MPLS	10576049	766505	4084566LCS_10576049	4084566		LCS	INITIAL	ZnTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:26	EPA 200.8	0	0.1	0.0969	0.002	0.005	mg/L	97	0	85	115	0
PACE_MPLS	10576049	766505	4084565BLANK_10576049	4084565		MB	INITIAL	ZnTR	T	1	2021-08-27 01:36	EPA 200.8	2021-09-01 11:23	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	768143	4093361BLANK_10576049	4093361		MB	INITIAL	ZnTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:22	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10576049	768143	4093362LCS_10576049	4093362		LCS	INITIAL	ZnTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:25	EPA 200.8	0	0.1	0.109	0.002	0.005	mg/L	109	0	85	115	0
PACE_MPLS	10576049	768143	SWSD0272-082521MSD	4093364	SWSD0272-082521	MSD	INITIAL	ZnTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:42	EPA 200.8	0.0013	0.1	0.113	0.002	0.005	mg/L	112	2	70	130	20
PACE_MPLS	10576049	768143	SWSD0272-082521MS	4093363	SWSD0272-082521	MS	INITIAL	ZnTR	T	1	2021-09-07 05:06	EPA 200.8	2021-09-08 05:38	EPA 200.8	0.0013	0.1	0.111	0.002	0.005	mg/L	110	0	70	130	0
PACE_MPLS	10583383	777579	4142099BLANK_10583383	4142099		MB	INITIAL	AsDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:48	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777579	4142100LCS_10583383	4142100		LCS	INITIAL	AsDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:52	EPA 200.8	0	0.1	0.1	0.000083	0.0005	mg/L	102	0	85	115	0
PACE_MPLS	10583383	777579	SWSD0290-100821MS	4142101	SWSD0290-100821	MS	INITIAL	AsDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:05	EPA 200.8	0.012	0.1	0.11	0.000083	0.0005	mg/L	102	0	70	130	0
PACE_MPLS	10583383	777579	SWSD0290-100821MSD	4142102	SWSD0290-100821	MSD	INITIAL	AsDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:08	EPA 200.8	0.012	0.1	0.11	0.000083	0.0005	mg/L	99	3	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MSD	4142110	SWSD0290-100821	MSD	INITIAL	AsTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:28	EPA 200.8	0.0144	0.1	0.117	0.000083	0.0005	mg/L	102	3	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MS	4142109	SWSD0290-100821	MS	INITIAL	AsTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:25	EPA 200.8	0.0144	0.1	0.12	0.000083	0.0005	mg/L	106	0	70	130	0
PACE_MPLS	10583383	777580	4142108LCS_10583383	4142108		LCS	INITIAL	AsTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:12	EPA 200.8	0	0.1	0.108	0.000083	0.0005	mg/L	108	0	85	115	0
PACE_MPLS	10583383	777580	4142107BLANK_10583383	4142107		MB	INITIAL	AsTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:09	EPA 200.8	0	0	0.000083	0.000083	0.0005	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777579	4142100LCS_10583383	4142100		LCS	INITIAL	CdDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:52	EPA 200.8	0	0.1	0.1	0.000016	0.00008	mg/L	101	0	85	115	0
PACE_MPLS	10583383	777579	4142099BLANK_10583383	4142099		MB	INITIAL	CdDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:48	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777579	SWSD0290-100821MSD	4142102	SWSD0290-100821	MSD	INITIAL	CdDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:08	EPA 200.8	0.0016	0.1	0.1	0.000016	0.00008	mg/L	100	1	70	130	20
PACE_MPLS	10583383	777579	SWSD0290-100821MS	4142101	SWSD0290-100821	MS	INITIAL	CdDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:05	EPA 200.8	0.0016	0.1	0.1	0.000016	0.00008	mg/L	101	0	70	130	0
PACE_MPLS	10583383	777580	SWSD0290-100821MSD	4142110	SWSD0290-100821	MSD	INITIAL	CdTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:28	EPA 200.8	0.002	0.1	0.106	0.000016	0.00008	mg/L	104	2	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MS	4142109	SWSD0290-100821	MS	INITIAL	CdTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:25	EPA 200.8	0.002	0.1	0.108	0.000016	0.00008	mg/L	106	0	70	130	0
PACE_MPLS	10583383	777580	4142107BLANK_10583383	4142107		MB	INITIAL	CdTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:09	EPA 200.8	0	0	0.000016	0.000016	0.00008	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777580	4142108LCS_10583383	4142108		LCS	INITIAL	CdTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:12	EPA 200.8	0	0.1	0.11	0.000016	0.00008	mg/L	110	0	85	115	0
PACE_MPLS	10583383	777579	4142100LCS_10583383	4142100		LCS	INITIAL	CuDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:52	EPA 200.8	0	0.1	0.1	0.0005	0.001	mg/L	105	0	85	115	0
PACE_MPLS	10583383	777579	4142099BLANK_10583383	4142099		MB	INITIAL	CuDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:48	EPA 200.8	0	0	0.0005	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777579	SWSD0290-100821MS	4142101	SWSD0290-100821	MS	INITIAL	CuDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:05	EPA 200.8	0.055	0.1	0.15	0.0005	0.001	mg/L	94	0	70	130	0
PACE_MPLS	10583383	777579	SWSD0290-100821MSD	4142102	SWSD0290-100821	MSD	INITIAL	CuDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:08	EPA 200.8	0.055	0.1	0.14	0.0005	0.001	mg/L	90	3	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MSD	4142110	SWSD0290-100821	MSD	INITIAL	CuTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:28	EPA 200.8	0.0743	0.1	0.179	0.0005	0.001	mg/L	105	1	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MS	4142109	SWSD0290-100821	MS	INITIAL	CuTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:25	EPA 200.8	0.0743	0.1	0.181	0.0005	0.001	mg/L	107	0	70	130	0
PACE_MPLS	10583383	777580	4142107BLANK_10583383	4142107		MB	INITIAL	CuTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:09	EPA 200.8	0	0	0.0013	0.0005	0.001	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777580	4142108LCS_10583383	4142108		LCS	INITIAL	CuTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:12	EPA 200.8	0	0.1	0.111	0.0005	0.001	mg/L	111	0	85	115	0
PACE_MPLS	10583383	777579	4142100LCS_10583383	4142100		LCS	INITIAL	FeDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:52	EPA 200.8	0	2	2.2	0.012	0.05	mg/L	108	0	85	115	0
PACE_MPLS	10583383	777579	4142099BLANK_10583383	4142099		MB	INITIAL	FeDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:48	EPA 200.8	0	0	0.012	0.012	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777579	SWSD0290-100821MS	4142101	SWSD0290-100821	MS	INITIAL	FeDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:05	EPA 200.8	0.15	2	2.3	0.012	0.05	mg/L	106	0	70	130	0
PACE_MPLS	10583383	777579	SWSD0290-100821MSD	4142102	SWSD0290-100821	MSD	INITIAL	FeDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:08	EPA 200.8	0.15	2	2.2	0.012	0.05	mg/L	103	2	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MSD	4142110	SWSD0290-100821	MSD	INITIAL	FeTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:28	EPA 200.8	0.573	2	2.73	0.0121	0.05	mg/L	108	2	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MS	4142109	SWSD0290-100821	MS	INITIAL	FeTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:25	EPA 200.8	0.573	2	2.8	0.0121	0.05	mg/L	111	0	70	130	0
PACE_MPLS	10583383	777580	4142107BLANK_10583383	4142107		MB	INITIAL	FeTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:09	EPA 200.8	0	0	0.0121	0.0121	0.05	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777580	4142108LCS_10583383	4142108		LCS	REANALYSIS	FeTR	T	1	2021-10-20 06:18	EPA 200.8	2021-11-01 05:50	EPA 200.8	0	2	2.11	0.0121	0.05	mg/L	105	0	85	115	0
PACE_MPLS	10583383	777584	4142141BLANK_10583383	4142141		MB	INITIAL	HgDis	D	1	2021-10-20 12:27	EPA 245.1	2021-10-21 03:33	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777584	4142142LCS_10583383	4142142		LCS	INITIAL	HgDis	D	1	2021-10-20 12:27	EPA 245.1	2021-10-21 03:34	EPA 245.1	0	0.005	0.0051	0.000045	0.0002	mg/L	101	0	85	115	0
PACE_MPLS	10583383	777584	SWSD0290-100821MS	4142143	SWSD0290-100821	MS	INITIAL	HgDis	D	1	2021-10-20 12:27	EPA 245.1	2021-10-21 03:37	EPA 245.1	0.000017	0.005	0.0051	0.000045	0.0002	mg/L	102	0	70	130	0
PACE_MPLS	10583383	777584	SWSD0290-100821MSD	4142144	SWSD0290-100821	MSD	INITIAL	HgDis	D	1	2021-10-20 12:27	EPA 245.1	2021-10-21 03:39	EPA 245.1	0.000017	0.005	0.0052	0.000045	0.0002	mg/L	104	2	70	130	20
PACE_MPLS	10583383	780014	SWSD0290-100821MSD	4154199	SWSD0290-100821	MSD	INITIAL	HgTR	T	1	2021-10-28 09:50	EPA 245.1	2021-10-28 02:12	EPA 245.1	0.000048	0.005	0.0052	0.000045	0.0002	mg/L	102	1	70	130	20
PACE_MPLS	10583383	780014	SWSD0290-100821MS	4154198	SWSD0290-100821	MS	INITIAL	HgTR	T	1	2021-10-28 09:50	EPA 245.1	2021-10-28 02:11	EPA 245.1	0.000048	0.005	0.0052	0.000045	0.0002	mg/L	104	0	70	130	0
PACE_MPLS	10583383	780014	4154196BLANK_10583383	4154196		MB	INITIAL	HgTR	T	1	2021-10-28 09:50	EPA 245.1	2021-10-28 02:06	EPA 245.1	0	0	0.000045	0.000045	0.0002	mg/L	0	0	0	0	0
PACE_MPLS	10583383	780014	4154197LCS_10583383	4154197		LCS	INITIAL	HgTR	T	1	2021-10-28 09:50	EPA 245.1	2021-10-28 02:08	EPA 245.1	0	0.005	0.005	0.000045	0.0002	mg/L	100	0	85	115	0
PACE_MPLS	10583383	777579	SWSD0290-100821MS	4142101	SWSD0290-100821	MS	INITIAL	PbDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:05	EPA 200.8	0.0039	0.1	0.1	0.000028	0.0001	mg/L	98	0	70	130	0
PACE_MPLS	10583383	777579	SWSD0290-100821MSD	4142102	SWSD0290-100821	MSD	INITIAL	PbDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:08	EPA 200.8	0.0039	0.1	0.1	0.000028	0.0001	mg/L	96	2	70	130	20
PACE_MPLS	10583383	777579	4142100LCS_10583383	4142100		LCS	INITIAL	PbDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:52	EPA 200.8	0	0.1	0.1	0.000028	0.0001	mg/L	100	0	85	115	0
PACE_MPLS	10583383	777579	4142099BLANK_10583383	4142099		MB	INITIAL	PbDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:48	EPA 200.8	0	0	0.000028	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777580	4142108LCS_10583383	4142108		LCS	INITIAL	PbTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:12	EPA 200.8	0	0.1	0.106	0.000028	0.0001	mg/L	106	0	85	115	0

Table E3d. BPSOU 2021 Diagnostic Data Quality - Laboratory Quality Assessment

Lab	SDG	Batch	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Fraction	DF	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
PACE_MPLS	10583383	777580	4142107BLANK_10583383	4142107		MB	INITIAL	PbTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:09	EPA 200.8	0	0	0.000042	0.000028	0.0001	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777580	SWSD0290-100821MSD	4142110	SWSD0290-100821	MSD	INITIAL	PbTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:28	EPA 200.8	0.0176	0.1	0.116	0.000028	0.0001	mg/L	99	2	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MS	4142109	SWSD0290-100821	MS	INITIAL	PbTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:25	EPA 200.8	0.0176	0.1	0.119	0.000028	0.0001	mg/L	101	0	70	130	0
PACE_MPLS	10583383	779894	SWSD0290-100821MS	4153598	SWSD0290-100821	MS	INITIAL	SO4	T	4	2021-10-28 03:06	METHOD	2021-10-28 03:06	ASTM D516-90-02	52	40	93.5	4.8	10	mg/L	104	0	80	120	0
PACE_MPLS	10583383	779894	4153595BLANK_10583383	4153595		MB	INITIAL	SO4	T	1	2021-10-29 11:35	METHOD	2021-10-29 11:35	ASTM D516-90-02	0	0	1.2	1.2	2.5	mg/L	0	0	0	0	0
PACE_MPLS	10583383	779894	4153596LCS_10583383	4153596		LCS	INITIAL	SO4	T	1	2021-10-28 05:34	METHOD	2021-10-28 05:34	ASTM D516-90-02	0	20	17.9	1.2	2.5	mg/L	90	0	80	120	0
PACE_MPLS	10583383	779894	4153597LCSD_10583383	4153597	4153596LCS_10583383	LCSD	INITIAL	SO4	T	1	2021-10-28 05:34	METHOD	2021-10-28 05:34	ASTM D516-90-02	0	20	17.7	1.2	2.5	mg/L	89	1	80	120	20
PACE_MPLS	10583383	779894	SWSD0290-100821MSD	4153599	SWSD0290-100821	MSD	INITIAL	SO4	T	4	2021-10-28 03:07	METHOD	2021-10-28 03:07	ASTM D516-90-02	52	10	93.1	4.8	10	mg/L	411	0	80	120	30
PACE_MPLS	10583383	777254	SWSD0290-100821DUP	4140250	SWSD0290-100821	LR	INITIAL	TSS	T	1	2021-10-15 02:30	METHOD	2021-10-15 02:30	SM 2540D	2	0	1.9	5	10	mg/L	0	0	0	0	5
PACE_MPLS	10583383	777254	4140248BLANK_10583383	4140248		MB	INITIAL	TSS	T	1	2021-10-15 02:30	METHOD	2021-10-15 02:30	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777254	4140249LCS_10583383	4140249		LCS	INITIAL	TSS	T	1	2021-10-15 02:30	METHOD	2021-10-15 02:30	SM 2540D	0	100	90.6	10	20	mg/L	91	0	80	120	0
PACE_MPLS	10583383	778371	4145653BLANK_10583383	4145653		MB	INITIAL	TSS	T	1	2021-10-21 08:40	METHOD	2021-10-21 08:40	SM 2540D	0	0	5	5	10	mg/L	0	0	0	0	0
PACE_MPLS	10583383	778371	4145654LCS_10583383	4145654		LCS	INITIAL	TSS	T	1	2021-10-21 08:40	METHOD	2021-10-21 08:40	SM 2540D	0	100	91.2	10	20	mg/L	91	0	80	120	0
PACE_MPLS	10583383	777579	4142100LCS_10583383	4142100		LCS	INITIAL	ZnDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:52	EPA 200.8	0	0.1	0.1	0.002	0.005	mg/L	102	0	85	115	0
PACE_MPLS	10583383	777579	4142099BLANK_10583383	4142099		MB	INITIAL	ZnDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 05:48	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0
PACE_MPLS	10583383	777579	SWSD0290-100821MS	4142101	SWSD0290-100821	MS	INITIAL	ZnDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:05	EPA 200.8	0.4	0.1	0.49	0.002	0.005	mg/L	97	0	70	130	0
PACE_MPLS	10583383	777579	SWSD0290-100821MSD	4142102	SWSD0290-100821	MSD	INITIAL	ZnDis	D	1	2021-10-20 11:48	EPA 200.8	2021-10-27 06:08	EPA 200.8	0.4	0.1	0.48	0.002	0.005	mg/L	84	3	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MSD	4142110	SWSD0290-100821	MSD	INITIAL	ZnTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:28	EPA 200.8	0.458	0.1	0.572	0.002	0.005	mg/L	113	1	70	130	20
PACE_MPLS	10583383	777580	SWSD0290-100821MS	4142109	SWSD0290-100821	MS	INITIAL	ZnTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:25	EPA 200.8	0.458	0.1	0.566	0.002	0.005	mg/L	108	0	70	130	0
PACE_MPLS	10583383	777580	4142108LCS_10583383	4142108		LCS	INITIAL	ZnTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:12	EPA 200.8	0	0.1	0.108	0.002	0.005	mg/L	108	0	85	115	0
PACE_MPLS	10583383	777580	4142107BLANK_10583383	4142107		MB	INITIAL	ZnTR	T	1	2021-10-20 06:18	EPA 200.8	2021-10-30 12:09	EPA 200.8	0	0	0.002	0.002	0.005	mg/L	0	0	0	0	0

Attachment A
Data Validation Checklists

DATA VALIDATION SUMMARY FOR SDG 10560269

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10560269
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	05/07/21, 05/12/21		
Data Validator:	Nadia Reed	**Validation Date:**	6/17/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	05/07/21, 05/12/21	05/25/21
Total Mercury	Aqueous	EPA 245.1	05/07/21, 05/12/21	05/25/21
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/07/21, 05/12/21	06/02/21
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/07/21, 05/12/21	05/27/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	05/07/21, 05/12/21	05/17/21, 05/19/21
Sulfate (SO4)	Aqueous	ASTM D516	05/07/21, 05/12/21	05/27/21

Were Level A field documentation and QA/QC practices met for this data set?	Y__X__ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y__X__ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	78	46	42	4	0
Percentage		59%	91%	9%	0%

Analyses of this sample set resulted in 46 natural sample data points. Of these, 42 (91%) had no quality control deficiencies and are defined as enforcement quality, while 4 (9%) had quality control deficiencies and are defined as screening quality. Of the 4 qualified data points, two were qualified for MS recoveries which did not meet criteria, and 2 were qualified for being analyzed outside of the method holding time. Of the 48 anticipated data points, 46 were collected. One sample had inadequate volume for TSS and sulfate analysis. Thus completeness for this data set is 96%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10560269
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	05/07/21, 05/12/21	**Analysis Date(s):**	05/25/21, 05/25/21
Data Validator:	Nadia Reed	**Validation Date:**	6/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0001-050721	10560269001	743119	IS2-N	SWSD0003-051221	SWSD0001
SWSD0002-050721	10560269002	743119	IS2-D	SWSD0003-051221	SWSD0002
SWSD0003-051221	10560269003	743119	FB	SWSD0003-051221	SWSD0003
SWSD0004-050721	10560269004	743119	IS1	SWSD0003-051221	SWSD0004
SWSD0005-050721	10560269005	743119	FG	SWSD0003-051221	SWSD0005
Total Mercury					
SWSD0001-050721	10560269001	743985	IS2-N	SWSD0003-051221	SWSD0001
SWSD0002-050721	10560269002	743985	IS2-D	SWSD0003-051221	SWSD0002
SWSD0003-051221	10560269003	743985	FB	SWSD0003-051221	SWSD0003
SWSD0004-050721	10560269004	743985	IS1	SWSD0003-051221	SWSD0004
SWSD0005-050721	10560269005	743985	FG	SWSD0003-051221	SWSD0005

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	05/07/21, 05/12/21	05/25/21	No
Total Mercury	Aqueous	EPA 245.1	05/07/21, 05/12/21	05/25/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10560269
Matrix:	Aqueous	**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	05/07/21, 05/12/21	**Analysis Date(s):**	06/02/21, 05/27/21
Data Validator:	Nadia Reed	**Validation Date:**	6/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWSD0001-050721	10560269001	745714	IS2-N	SWSD0003-051221	SWSD0001
SWSD0002-050721	10560269002	745714	IS2-D	SWSD0003-051221	SWSD0002
SWSD0003-051221	10560269003	745714	FB	SWSD0003-051221	SWSD0003
SWSD0004-050721	10560269004	745714	IS1	SWSD0003-051221	SWSD0004
SWSD0005-050721	10560269005	745714	FG	SWSD0003-051221	SWSD0005
Total Metals					
SWSD0001-050721	10560269001	742730	IS2-N	SWSD0003-051221	SWSD0001
SWSD0002-050721	10560269002	742730	IS2-D	SWSD0003-051221	
SWSD0003-051221	10560269003	742730	FB	SWSD0003-051221	SWSD0003
SWSD0004-050721	10560269004	742730	IS1	SWSD0003-051221	SWSD0004
SWSD0005-050721	10560269005	742730	FG	SWSD0003-051221	SWSD0005

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/07/21, 05/12/21	06/02/21	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/07/21, 05/12/21	05/27/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 742730, *MS 3961164 ZnTR result was <70% and MSD 3961165 FeTR recovery was >130%. In both cases, the parent sample concentrations were >4X the spike concentrations, so no FeTR or ZnTR results were qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10560269
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	05/07/21, 05/12/21	**Analysis Date(s):**	05/17/21, 05/19/21
Data Validator:	Nadia Reed	**Validation Date:**	6/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0001-050721	10560269001	742567	IS2-N	SWSD0003-051221	SWSD0001
SWSD0002-050721	10560269002	742567	IS2-D	SWSD0003-051221	SWSD0002
SWSD0003-051221	10560269003	743237	FB	SWSD0003-051221	SWSD0003
SWSD0004-050721	10560269004	742567	IS1	SWSD0003-051221	SWSD0004

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	05/07/21, 05/12/21	05/17/21, 05/19/21	Yes

Describe corrective actions taken because of holding time problems.

QC Batch 742567 containing samples SWSD0001, SWSD0002, and SWSD0004 were analyzed past the 7-day method holding time. TSS results for these three samples were qualified J-.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y____ N_____ NA_X_
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
Are there any additional analytical limitations that users should be aware of?	Y_X_ N___
Sample SWSD0005 did not have sufficient volume for full analysis; thus, this sample did not undergo TSS analysis.	

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10560269
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	05/07/21, 05/12/21	**Analysis Date(s):**	05/27/21
Data Validator:	Nadia Reed	**Validation Date:**	6/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0001-050721	10560269001	744717	IS2-N	SWSD0003-051221	SWSD0001
SWSD0002-050721	10560269002	744717	IS2-D	SWSD0003-051221	SWSD0002
SWSD0003-051221	10560269003	744717	FB	SWSD0003-051221	SWSD0003
SWSD0004-050721	10560269004	744717	IS1	SWSD0003-051221	SWSD0004

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	05/07/21, 05/12/21	05/27/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were the LCS/LCSD within control window of 80-120% recovery? Y_X_ N___

Was the LCS/LCSD ≤ 20% relative percent difference (RPD)? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 744717, MS 3971484 and MSD 3971485 SO4 recovery >120%. Sulfate results for SWSD0001, SWSD0002, and SWSD0004 were qualified J+. In the same QC batch, MS 3971486 recovery was <80%; however, the parent sample was not project associated which prevented matrix similarity from being assessed. Thus, no data were qualified based on MS 3971486 recovery. Field blanks are not assessed for MS/MSD recovery since they are of a differing matrix.

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

Sample SWSD0005 did not have sufficient volume for full analysis; thus, this sample did not undergo sulfate analysis.

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10560269
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	05/07/21, 05/12/21		
Data Validator:	Nadia Reed	**Validation Date:**	6/17/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0001-050721	10560269001	IS2-N	SWSD0003-051221	SWSD0001
SWSD0002-050721	10560269002	IS2-D	SWSD0003-051221	SWSD0002
SWSD0003-051221	10560269003	FB	SWSD0003-051221	SWSD0003
SWSD0004-050721	10560269004	IS1	SWSD0003-051221	SWSD0004
SWSD0005-050721	10560269005	FG	SWSD0003-051221	SWSD0005

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	05/07/21, 05/12/21	05/25/21
Total Mercury	Aqueous	EPA 245.1	05/07/21, 05/12/21	05/25/21
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/07/21, 05/12/21	06/02/21
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/07/21, 05/12/21	05/27/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	05/07/21, 05/12/21	05/17/21, 05/19/21
Sulfate (SO4)	Aqueous	ASTM D516	05/07/21, 05/12/21	05/27/21

Field QC Samples

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP?	Y_X_ N___
Were results for FBs within the target control limits in the BPSOU SW QAPP?	Y___ N_X_
Were any data qualified because of FB problems?	Y___ N_X_

AsTR was detected in FB SWSD0003 at the MDL. Blank detections ≤ 1.5X the MDL are not assessed per TREC data validation guidelines.
CdTR and PbTR were detected in FB SWSD0003. Associated CdTR and PbTR results were >10X FB value, thus not qualified.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP?	Y_X_ N___
Were results for FDs within the target control limits in the BPSOU SW QAPP?	Y_X_ N___
Were any data qualified because of FD results?	Y___ N_X_

Additional Comments

Sample SWSD0005 did not have sufficient volume for full analysis; thus, this sample did not undergo TSS and sulfate analysis.

DATA VALIDATION SUMMARY FOR SDG 10561913

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10561913
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21		
Data Validator:	Nadia Reed	**Validation Date:**	7/6/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	05/19/21, 05/20/21, 05/24/21	06/07/2021
Total Mercury	Aqueous	EPA 245.1	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21	06/07/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/19/21, 05/20/21, 05/24/21	06/15/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21	06/08/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	05/19/21, 05/20/21, 05/24/21	05/26/21, 05/27/21, 05/29/21
Sulfate (SO4)	Aqueous	ASTM D516	05/19/21, 05/20/21, 05/24/21	06/04/21

Were Level A field documentation and QA/QC practices met for this data set?	Y__X__ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y__X__ N___

DATA VALIDATION SUMMARY FOR SDG 10561913

Summary					
	Data Points	**Natural Data Points**	**Enforcement Quality (E)**	**Screening Level (S)**	**Unusable (R)**
Total	229	197	183	14	0
Percentage		86%	93%	7%	0%

Analyses of this sample set resulted in 197 natural sample data points. Of these natural sample data points, 183 (93%) data points had no associated quality control deficiencies and are defined as enforcement quality. Fourteen (7%) data points had quality control deficiencies and are defined as screening quality. The 14 data points were qualified for MS/MSD recoveries which did not meet acceptance criteria. Samples SWSD0013, SWSD0019, and SWSD021 did not have adequate volume for full analysis. Dissolved mercury, dissolved metals, TSS, and sulfate analysis was not performed on these three samples. Of the 224 anticipated natural sample data points, 197 were collected and none were rejected. Thus, completeness is 88%

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10561913
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21	**Analysis Date(s):**	06/07/2021, 06/07/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/6/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0006-052021	10561913001	746852	IS7	SWSD0018-052421	SWSD0006
SWSD0007-052021	10561913002	746852	IS6	SWSD0018-052421	SWSD0007
SWSD0008-052021	10561913003	746852	IS5	SWSD0018-052421	SWSD0008
SWSD0009-052021	10561913004	746852	IS4	SWSD0018-052421	SWSD0009
SWSD0010-052021	10561913005	746852	IS3	SWSD0018-052421	SWSD0010
SWSD0011-052021	10561913006	746852	IS2	SWSD0018-052421	SWSD0011
SWSD0012-052021	10561913007	746852	IS1	SWSD0018-052421	SWSD0012
SWSD0013-052021	inadequate volume for dissolved mercury analysis				
SWSD0014-052021	10561913009	746852	IS3	SWSD0018-052421	SWSD0014
SWSD0015-052021	10561913010	746852	IS2	SWSD0018-052421	SWSD0015
SWSD0016-051921	10561913011	746852	IS1-N	SWSD0018-052421	SWSD0016
SWSD0017-051921	10561913012	746852	IS1-D	SWSD0018-052421	SWSD0017
SWSD0018-052421	10561913013	746852	FB	SWSD0018-052421	SWSD0018
SWSD0019-051421	inadequate volume for dissolved mercury analysis				
SWSD0020-052021	10561913015	746852	AS	SWSD0018-052421	SWSD0020
SWSD0021-052121	inadequate volume for dissolved mercury analysis				
Total Mercury					
SWSD0006-052021	10561913001	746853	IS7	SWSD0018-052421	SWSD0006
SWSD0007-052021	10561913002	746853	IS6	SWSD0018-052421	SWSD0007
SWSD0008-052021	10561913003	746853	IS5	SWSD0018-052421	SWSD0008

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0009-052021	10561913004	746853	IS4	SWSD0018-052421	SWSD0009
SWSD0010-052021	10561913005	746853	IS3	SWSD0018-052421	SWSD0010
SWSD0011-052021	10561913006	746853	IS2	SWSD0018-052421	SWSD0011
SWSD0012-052021	10561913007	746853	IS1	SWSD0018-052421	SWSD0012
SWSD0013-052021	10561913008	746853	IS1	SWSD0018-052421	SWSD0013
SWSD0014-052021	10561913009	746853	IS3	SWSD0018-052421	SWSD0014
SWSD0015-052021	10561913010	746853	IS2	SWSD0018-052421	SWSD0015
SWSD0016-051921	10561913011	746853	IS1-N	SWSD0018-052421	SWSD0016
SWSD0017-051921	10561913012	746853	IS1-D	SWSD0018-052421	SWSD0017
SWSD0018-052421	10561913013	746853	FB	SWSD0018-052421	SWSD0018
SWSD0019-051421	10561913014	746853	AS	SWSD0018-052421	SWSD0019
SWSD0020-052021	10561913015	746853	AS	SWSD0018-052421	SWSD0020
SWSD0021-052121	10561913016	746853	AS	SWSD0018-052421	SWSD0021

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	05/19/21, 05/20/21, 05/24/21	06/07/2021	No
Total Mercury	Aqueous	EPA 245.1	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21	06/07/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10561913
Matrix:	Aqueous	**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21	**Analysis Date(s):**	06/15/2021, 06/08/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/6/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWSD0006-052021	10561913001	748326	IS7	SWSD0018-052421	SWSD0006
SWSD0007-052021	10561913002	748326	IS6	SWSD0018-052421	SWSD0007
SWSD0008-052021	10561913003	748326	IS5	SWSD0018-052421	SWSD0008
SWSD0009-052021	10561913004	748326	IS4	SWSD0018-052421	SWSD0009
SWSD0010-052021	10561913005	748326	IS3	SWSD0018-052421	SWSD0010
SWSD0011-052021	10561913006	748326	IS2	SWSD0018-052421	SWSD0011
SWSD0012-052021	10561913007	748326	IS1	SWSD0018-052421	SWSD0012
SWSD0013-052021	inadequate volume for dissolved metals analysis				
SWSD0014-052021	10561913009	748326	IS3	SWSD0018-052421	SWSD0014
SWSD0015-052021	10561913010	748326	IS2	SWSD0018-052421	SWSD0015
SWSD0016-051921	10561913011	748326	IS1-N	SWSD0018-052421	SWSD0016
SWSD0017-051921	10561913012	748326	IS1-D	SWSD0018-052421	SWSD0017
SWSD0018-052421	10561913013	748326	FB	SWSD0018-052421	SWSD0018
SWSD0019-051421	inadequate volume for dissolved metals analysis				
SWSD0020-052021	10561913015	748326	AS	SWSD0018-052421	SWSD0020
SWSD0021-052121	inadequate volume for dissolved metals analysis				
Total Metals					
SWSD0006-052021	10561913001	746849	IS7	SWSD0018-052421	SWSD0006
SWSD0007-052021	10561913002	746849	IS6	SWSD0018-052421	SWSD0007
SWSD0008-052021	10561913003	746849	IS5	SWSD0018-052421	SWSD0008
SWSD0009-052021	10561913004	746849	IS4	SWSD0018-052421	SWSD0009

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0010-052021	10561913005	746849	IS3	SWSD0018-052421	SWSD0010
SWSD0011-052021	10561913006	746849	IS2	SWSD0018-052421	SWSD0011
SWSD0012-052021	10561913007	746849	IS1	SWSD0018-052421	SWSD0012
SWSD0013-052021	10561913008	746849	IS1	SWSD0018-052421	SWSD0013
SWSD0014-052021	10561913009	746849	IS3	SWSD0018-052421	SWSD0014
SWSD0015-052021	10561913010	746849	IS2	SWSD0018-052421	SWSD0015
SWSD0016-051921	10561913011	746849	IS1-N	SWSD0018-052421	SWSD0016
SWSD0017-051921	10561913012	746849	IS1-D	SWSD0018-052421	SWSD0017
SWSD0018-052421	10561913013	746849	FB	SWSD0018-052421	SWSD0018
SWSD0019-051421	10561913014	746849	AS	SWSD0018-052421	SWSD0019
SWSD0020-052021	10561913015	746849	AS	SWSD0018-052421	SWSD0020
SWSD0021-052121	10561913016	746849	AS	SWSD0018-052421	SWSD0021

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/19/21, 05/20/21, 05/24/21	06/15/2021	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21	06/08/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC batch 746849** , MS 3983984 had FeTR and ZnTR <70%. The parent sample, SWSD0006, and samples SWSD0007-SWSD0012 were collected in the same drainage and of a similar matrix, thus FeTR and ZnTR results for SWSD0006 through SWSD0012 were qualified J-.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10561913
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	05/19/21, 05/20/21, 05/24/21	**Analysis Date(s):**	05/26/21, 05/27/21, 05/29/21
Data Validator:	Nadia Reed	**Validation Date:**	7/6/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0006-052021	10561913001	744948	IS7	SWSD0018-052421	SWSD0006
SWSD0007-052021	10561913002	744948	IS6	SWSD0018-052421	SWSD0007
SWSD0008-052021	10561913003	744948	IS5	SWSD0018-052421	SWSD0008
SWSD0009-052021	10561913004	744948	IS4	SWSD0018-052421	SWSD0009
SWSD0010-052021	10561913005	744948	IS3	SWSD0018-052421	SWSD0010
SWSD0011-052021	10561913006	744948	IS2	SWSD0018-052421	SWSD0011
SWSD0012-052021	10561913007	744948	IS1	SWSD0018-052421	SWSD0012
SWSD0013-052021	inadequate volume for TSS analysis				
SWSD0014-052021	10561913009	744948	IS3	SWSD0018-052421	SWSD0014
SWSD0015-052021	10561913010	744949	IS2	SWSD0018-052421	SWSD0015
SWSD0016-051921	10561913011	744609	IS1-N	SWSD0018-052421	SWSD0016
SWSD0017-051921	10561913012	744609	IS1-D	SWSD0018-052421	SWSD0017
SWSD0018-052421	10561913013	745259	FB	SWSD0018-052421	SWSD0018
SWSD0019-051421	inadequate volume for TSS analysis				
SWSD0020-052021	10561913015	744949	AS	SWSD0018-052421	SWSD0020
SWSD0021-052121	inadequate volume for TSS analysis				

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	05/19/21, 05/20/21, 05/24/21	05/26/21, 05/27/21, 05/29/21	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y____ N_____ NA_X_
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y___ N_X_
Were any data flagged because of LDS problems?	Y___ N_X_

Describe corrective actions taken because of LDS problems.

QC Batch 744948 *both original 10561584003 and duplicate sample 3972896 ≥ 5X RL and RPD > 10%. The parent sample for this laboratory duplicate was not project related, preventing matrix similarity from being assessed. Therefore, no qualifiers were applied.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10561913
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	05/19/21, 05/20/21, 05/24/21	**Analysis Date(s):**	06/04/21
Data Validator:	Nadia Reed	**Validation Date:**	7/6/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0006-052021	10561913001	746688	IS7	SWSD0018-052421	SWSD0006
SWSD0007-052021	10561913002	746688	IS6	SWSD0018-052421	SWSD0007
SWSD0008-052021	10561913003	746688	IS5	SWSD0018-052421	SWSD0008
SWSD0009-052021	10561913004	746688	IS4	SWSD0018-052421	SWSD0009
SWSD0010-052021	10561913005	746688	IS3	SWSD0018-052421	SWSD0010
SWSD0011-052021	10561913006	746688	IS2	SWSD0018-052421	SWSD0011
SWSD0012-052021	10561913007	746688	IS1	SWSD0018-052421	SWSD0012
SWSD0013-052021	inadequate volume for sulfate analysis				
SWSD0014-052021	10561913009	746688	IS3	SWSD0018-052421	SWSD0014
SWSD0015-052021	10561913010	746688	IS2	SWSD0018-052421	SWSD0015
SWSD0016-051921	10561913011	746688	IS1-N	SWSD0018-052421	SWSD0016
SWSD0017-051921	10561913012	746688	IS1-D	SWSD0018-052421	SWSD0017
SWSD0018-052421	10561913013	746688	FB	SWSD0018-052421	SWSD0018
SWSD0019-051421	inadequate volume for sulfate analysis				
SWSD0020-052021	10561913015	746688	AS	SWSD0018-052421	SWSD0020
SWSD0021-052121	inadequate volume for sulfate analysis				

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	05/19/21, 05/20/21, 05/24/21	06/04/21	No

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Describe corrective actions taken because of holding time problems.	
2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y___ N_X_
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
QC Batch 746688 *MSD 3982874 had a 75% recovery, MSD 3982876 had a 76% recovery, and MS 3982875 had a 121% recovery. MS 3982875 and MSD 3982876 had a 36% RPD. However, neither parent sample was project associated, preventing matrix similarity from being assessed. Therefore, no qualifiers were applied.*	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

CHECKLIST for FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10561913
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21		
Data Validator:	Nadia Reed	**Validation Date:**	7/6/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0006-052021	10561913001	IS7	SWSD0018-052421	SWSD0006
SWSD0007-052021	10561913002	IS6	SWSD0018-052421	SWSD0007
SWSD0008-052021	10561913003	IS5	SWSD0018-052421	SWSD0008
SWSD0009-052021	10561913004	IS4	SWSD0018-052421	SWSD0009
SWSD0010-052021	10561913005	IS3	SWSD0018-052421	SWSD0010
SWSD0011-052021	10561913006	IS2	SWSD0018-052421	SWSD0011
SWSD0012-052021	10561913007	IS1	SWSD0018-052421	SWSD0012
SWSD0013-052021	10561913008	IS1	SWSD0018-052421	SWSD0013
SWSD0014-052021	10561913009	IS3	SWSD0018-052421	SWSD0014
SWSD0015-052021	10561913010	IS2	SWSD0018-052421	SWSD0015
SWSD0016-051921	10561913011	IS1-N	SWSD0018-052421	SWSD0016
SWSD0017-051921	10561913012	IS1-D	SWSD0018-052421	SWSD0017
SWSD0018-052421	10561913013	FB	SWSD0018-052421	SWSD0018
SWSD0019-051421	10561913014	AS	SWSD0018-052421	SWSD0019
SWSD0020-052021	10561913015	AS	SWSD0018-052421	SWSD0020
SWSD0021-052121	10561913016	AS	SWSD0018-052421	SWSD0021

CHECKLIST for FIELD QUALITY CONTROL

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	05/19/21, 05/20/21, 05/24/21	06/07/2021
Total Mercury	Aqueous	EPA 245.1	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21	06/07/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/19/21, 05/20/21, 05/24/21	06/15/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	05/14/21, 05/19/21, 05/20/21, 05/21/21, 05/24/21	06/08/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	05/19/21, 05/20/21, 05/24/21	05/26/21, 05/27/21, 05/29/21
Sulfate (SO4)	Aqueous	ASTM D516	05/19/21, 05/20/21, 05/24/21	06/04/21

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FB problems? Y___ N_X_

CuTR was detetected in FB SWD0018 at a concentration <1.5X the MDL. Blank detections ≤1.5X the MDL are not assessed per TREC data validation guidelines.

PbTR was detected in FB SWSD0018. Associated PbTR results in samples SWSD0006-SWSD0016 and SWSD0019-SWSD0021 >10X FB value, thus were not qualified.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP? Y_X_ N___

Were any data qualified because of FD results? Y___ N_X_

Additional Comments

DATA VALIDATION SUMMARY FOR SDG 10562410

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2019); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562410
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021,	**Analysis Date(s):**	5/28/2021, 5/29/2021, 6/02/2021, 6/10/2021,
Data Validator:	Nadia Reed	**Validation Date:**	7/22/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	06/10/2021
Total Mercury	Aqueous	EPA 245.1	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	06/10/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	6/10/21, 6/11/21, 6/12/21, 6/15/21
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	5/28/21, 5/29/21, 6/2/21, 6/10/21, 6/11/21, 6/14/21,
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	05/28/2021, 05/29/2021, 06/02/2021
Sulfate (SO4)	Aqueous	ASTM D516	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	06/14/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	465	401	362	39	0
Percentage		86%	90%	10%	0%

Analyses associated with this sample set resulted in 401 natural sample data points. Of these, 362 (90%) had no associated quality control deficiencies and are defined as enforcement quality while, 39 (10%) data points had quality control deficiencies and are defined as screening quality. Of the 39 screening quality data points; 8 were coded "MS" due to laboratory accuracy criteria not being met, 14 were coded "FB" due to field accuracy criteria not being met, and 17 were coded "FD" due to field precision criteria not being met. No data were rejected; however, three samples were not analyzed for dissolved metals and five samples were not analyzed for TSS and sulfate. Therefore, completeness for this data set is 93%.

LABORATORY DATA DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2019); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562410
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021,	**Analysis Date(s):**	06/10/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/22/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0022-052321	10562410001	747484	IS8	SWSD0039-052621	SWSD0022
SWSD0023-052321	10562410002	747484	IS7	SWSD0039-052621	SWSD0023
SWSD0024-052321	10562410003	747484	IS6	SWSD0039-052621	SWSD0024
SWSD0025-052121	10562410004	747484	IS5	SWSD0039-052621	SWSD0025
SWSD0026-052121	10562410005	747484	IS4	SWSD0039-052621	SWSD0026
SWSD0027-052121	10562410006	747484	IS3	SWSD0039-052621	SWSD0027
SWSD0028-052121	10562410007	747484	IS2	SWSD0039-052621	SWSD0028
SWSD0029-052121	10562410008	747484	IS1	SWSD0039-052621	SWSD0029
SWSD0030-052321	10562410009	747484	IS8	SWSD0039-052621	SWSD0030
SWSD0031-052321	10562410010	747484	IS7	SWSD0039-052621	SWSD0031
SWSD0032-052321	10562410011	747484	IS6	SWSD0039-052621	SWSD0032
SWSD0033-052321	10562410012	747484	IS5	SWSD0039-052621	SWSD0033
SWSD0034-052321	10562410013	747484	IS4	SWSD0039-052621	SWSD0034
SWSD0035-052321	10562410014	747484	IS3	SWSD0039-052621	SWSD0035
SWSD0036-052321	10562410015	747484	IS2	SWSD0039-052621	SWSD0036
SWSD0037-052321	10562410016	747484	IS1-N	SWSD0039-052621	SWSD0037
SWSD0038-052321	10562410017	747484	IS1-D	SWSD0039-052621	SWSD0038
SWSD0039-052621	10562410018	747484	FB	SWSD0039-052621	SWSD0039
SWSD0040-052321	10562410019	747484	IS2	SWSD0039-052621	SWSD0040
SWSD0041-052321	insufficient volume for dissolved Hg analysis				

LABORATORY DATA DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0042-052421	10562410021	747486	IS5	SWSD0048-052621	SWSD0042
SWSD0043-052321	10562410022	747486	IS4	SWSD0048-052621	SWSD0043
SWSD0044-052221	10562410023	747486	IS3	SWSD0048-052621	SWSD0044
SWSD0045-052121	10562410024	747486	IS2	SWSD0048-052621	SWSD0045
SWSD0046-052121	10562410025	747486	IS1-N	SWSD0048-052621	SWSD0046
SWSD0047-052121	10562410026	747486	IS1-D	SWSD0048-052621	SWSD0047
SWSD0048-052621	10562410027	747486	FB	SWSD0048-052621	SWSD0048
SWSD0049-052321	10562410028	747486	AS	SWSD0048-052621	SWSD0049
SWSD0050-052321	10562410029	747486	AS	SWSD0048-052621	SWSD0050
SWSD0051-052321	insufficient volume for dissolved Hg analysis				
SWSD0052-052321	insufficient volume for dissolved Hg analysis				
Total Mercury					
SWSD0022-052321	10562410001	747491	IS8	SWSD0039-052621	SWSD0022
SWSD0023-052321	10562410002	747491	IS7	SWSD0039-052621	SWSD0023
SWSD0024-052321	10562410003	747491	IS6	SWSD0039-052621	SWSD0024
SWSD0025-052121	10562410004	747491	IS5	SWSD0039-052621	SWSD0025
SWSD0026-052121	10562410005	747491	IS4	SWSD0039-052621	SWSD0026
SWSD0027-052121	10562410006	747491	IS3	SWSD0039-052621	SWSD0027
SWSD0028-052121	10562410007	747491	IS2	SWSD0039-052621	SWSD0028
SWSD0029-052121	10562410008	747491	IS1	SWSD0039-052621	SWSD0029
SWSD0030-052321	10562410009	747491	IS8	SWSD0039-052621	SWSD0030
SWSD0031-052321	10562410010	747491	IS7	SWSD0039-052621	SWSD0031
SWSD0032-052321	10562410011	747491	IS6	SWSD0039-052621	SWSD0032
SWSD0033-052321	10562410012	747491	IS5	SWSD0039-052621	SWSD0033
SWSD0034-052321	10562410013	747491	IS4	SWSD0039-052621	SWSD0034
SWSD0035-052321	10562410014	747491	IS3	SWSD0039-052621	SWSD0035
SWSD0036-052321	10562410015	747491	IS2	SWSD0039-052621	SWSD0036
SWSD0037-052321	10562410016	747491	IS1-N	SWSD0039-052621	SWSD0037
SWSD0038-052321	10562410017	747491	IS1-D	SWSD0039-052621	SWSD0038
SWSD0039-052621	10562410018	747491	FB	SWSD0039-052621	SWSD0039
SWSD0040-052321	10562410019	747491	IS2	SWSD0039-052621	SWSD0040
SWSD0041-052321	10562410020	747491	IS1	SWSD0039-052621	SWSD0041
SWSD0042-052421	10562410021	747492	IS5	SWSD0048-052621	SWSD0042

LABORATORY DATA DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0043-052321	10562410022	747492	IS4	SWSD0048-052621	SWSD0043
SWSD0044-052221	10562410023	747492	IS3	SWSD0048-052621	SWSD0044
SWSD0045-052121	10562410024	747492	IS2	SWSD0048-052621	SWSD0045
SWSD0046-052121	10562410025	747492	IS1-N	SWSD0048-052621	SWSD0046
SWSD0047-052121	10562410026	747492	IS1-D	SWSD0048-052621	SWSD0047
SWSD0048-052621	10562410027	747492	FB	SWSD0048-052621	SWSD0048
SWSD0049-052321	10562410028	747492	AS	SWSD0048-052621	SWSD0049
SWSD0050-052321	10562410029	747492	AS	SWSD0048-052621	SWSD0050
SWSD0051-052321	10562410030	747492	AS	SWSD0048-052621	SWSD0051
SWSD0052-052321	10562410031	747492	AS	SWSD0048-052621	SWSD0052

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	06/10/2021	No
Total Mercury	Aqueous	EPA 245.1	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	06/10/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

LABORATORY DATA DATA VALIDATION CHECKLIST FOR MERCURY

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2019); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347.0124	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10562410	
Matrix:	Aqueous		**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn	
Sample Date(s):	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021		**Analysis Date(s):**	6/11/2021, 6/12/2021, 6/14/2021-6/16/2021	
Data Validator:	Nadia Reed		**Validation Date:**	7/22/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWSD0022-052321	10562410001	748595	IS8	SWSD0039-052621	SWSD0022
SWSD0023-052321	10562410002	748595	IS7	SWSD0039-052621	SWSD0023
SWSD0024-052321	10562410003	748595	IS6	SWSD0039-052621	SWSD0024
SWSD0025-052121	10562410004	748595	IS5	SWSD0039-052621	SWSD0025
SWSD0026-052121	10562410005	748595	IS4	SWSD0039-052621	SWSD0026
SWSD0027-052121	10562410006	748595	IS3	SWSD0039-052621	SWSD0027
SWSD0028-052121	10562410007	748595	IS2	SWSD0039-052621	SWSD0028
SWSD0029-052121	10562410008	748595	IS1	SWSD0039-052621	SWSD0029
SWSD0030-052321	10562410009	748595	IS8	SWSD0039-052621	SWSD0030
SWSD0031-052321	10562410010	748595	IS7	SWSD0039-052621	SWSD0031
SWSD0032-052321	10562410011	748595	IS6	SWSD0039-052621	SWSD0032
SWSD0033-052321	10562410012	748595	IS5	SWSD0039-052621	SWSD0033
SWSD0034-052321	10562410013	748595	IS4	SWSD0039-052621	SWSD0034
SWSD0035-052321	10562410014	748595	IS3	SWSD0039-052621	SWSD0035
SWSD0036-052321	10562410015	748595	IS2	SWSD0039-052621	SWSD0036
SWSD0037-052321	10562410016	748595	IS1-N	SWSD0039-052621	SWSD0037
SWSD0038-052321	10562410017	748595	IS1-D	SWSD0039-052621	SWSD0038
SWSD0039-052621	10562410018	748595	FB	SWSD0039-052621	SWSD0039
SWSD0040-052321	10562410019	748595	IS2	SWSD0039-052621	SWSD0040
SWSD0041-052321	insufficient volume for dissolved metals analysis				

SWSD0042-052421	10562410021	747482	IS5	SWSD0048-052621	SWSD0042
SWSD0043-052321	10562410022	747482	IS4	SWSD0048-052621	SWSD0043
SWSD0044-052221	10562410023	747482	IS3	SWSD0048-052621	SWSD0044
SWSD0045-052121	10562410024	747482	IS2	SWSD0048-052621	SWSD0045
SWSD0046-052121	10562410025	747482	IS1-N	SWSD0048-052621	SWSD0046
SWSD0047-052121	10562410026	747482	IS1-D	SWSD0048-052621	SWSD0047
SWSD0048-052621	10562410027	747482	FB	SWSD0048-052621	SWSD0048
SWSD0049-052321	10562410028	747482	AS	SWSD0048-052621	SWSD0049
SWSD0050-052321	10562410029	747482	AS	SWSD0048-052621	SWSD0050
SWSD0051-052321	insufficient volume for dissolved metals analysis				
SWSD0052-052321	insufficient volume for dissolved metals analysis				
Total Metals					
SWSD0022-052321	10562410001	748968	IS8	SWSD0039-052621	SWSD0022
SWSD0023-052321	10562410002	748968	IS7	SWSD0039-052621	SWSD0023
SWSD0024-052321	10562410003	748968	IS6	SWSD0039-052621	SWSD0024
SWSD0025-052121	10562410004	748968	IS5	SWSD0039-052621	SWSD0025
SWSD0026-052121	10562410005	748968	IS4	SWSD0039-052621	SWSD0026
SWSD0027-052121	10562410006	748968	IS3	SWSD0039-052621	SWSD0027
SWSD0028-052121	10562410007	748968	IS2	SWSD0039-052621	SWSD0028
SWSD0029-052121	10562410008	748968	IS1	SWSD0039-052621	SWSD0029
SWSD0030-052321	10562410009	748968	IS8	SWSD0039-052621	SWSD0030
SWSD0031-052321	10562410010	748968	IS7	SWSD0039-052621	SWSD0031
SWSD0032-052321	10562410011	748968	IS6	SWSD0039-052621	SWSD0032
SWSD0033-052321	10562410012	748968	IS5	SWSD0039-052621	SWSD0033
SWSD0034-052321	10562410013	748968	IS4	SWSD0039-052621	SWSD0034
SWSD0035-052321	10562410014	748968	IS3	SWSD0039-052621	SWSD0035
SWSD0036-052321	10562410015	748968	IS2	SWSD0039-052621	SWSD0036
SWSD0037-052321	10562410016	748968	IS1-N	SWSD0039-052621	SWSD0037
SWSD0038-052321	10562410017	748968	IS1-D	SWSD0039-052621	SWSD0038
SWSD0039-052621	10562410018	748968	FB	SWSD0039-052621	SWSD0039
SWSD0040-052321	10562410019	748968	IS2	SWSD0039-052621	SWSD0040
SWSD0041-052321	10562410020	748968	IS1	SWSD0039-052621	SWSD0041
SWSD0042-052421	10562410021	747490	IS5	SWSD0048-052621	SWSD0042
SWSD0043-052321	10562410022	747490	IS4	SWSD0048-052621	SWSD0043

LABORATORY DATA DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0044-052221	10562410023	747490	IS3	SWSD0048-052621	SWSD0044
SWSD0045-052121	10562410024	747490	IS2	SWSD0048-052621	SWSD0045
SWSD0046-052121	10562410025	747490	IS1-N	SWSD0048-052621	SWSD0046
SWSD0047-052121	10562410026	747490	IS1-D	SWSD0048-052621	SWSD0047
SWSD0048-052621	10562410027	747490	FB	SWSD0048-052621	SWSD0048
SWSD0049-052321	10562410028	747490	AS	SWSD0048-052621	SWSD0049
SWSD0050-052321	10562410029	747490	AS	SWSD0048-052621	SWSD0050
SWSD0051-052321	10562410030	747490	AS	SWSD0048-052621	SWSD0051
SWSD0052-052321	10562410031	747490	AS	SWSD0048-052621	SWSD0052

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	6/10/21, 6/11/21, 6/12/21, 6/15/21	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	5/28/21, 5/29/21, 6/2/21, 6/10/21, 6/11/21, 6/14/21, 6/16/21	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 747482 *, FeDis was detected in the MB 3987036 at a concentration < 1.5X the MDL. It was not further assessed per the TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

LABORATORY DATA DATA VALIDATION CHECKLIST FOR ICPMS

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA DATA VALIDATION CHECKLIST FOR GRAVIMETRIC

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2019); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562410
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021,	**Analysis Date(s):**	05/28/2021, 05/29/2021, 06/02/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/22/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0022-052321	10562410001	745257	IS8	SWSD0039-052621	SWSD0022
SWSD0023-052321	10562410002	745257	IS7	SWSD0039-052621	SWSD0023
SWSD0024-052321	10562410003	745257	IS6	SWSD0039-052621	SWSD0024
SWSD0025-052121	10562410004	745256	IS5	SWSD0039-052621	SWSD0025
SWSD0026-052121	10562410005	745256	IS4	SWSD0039-052621	SWSD0026
SWSD0027-052121	10562410006	745256	IS3	SWSD0039-052621	SWSD0027
SWSD0028-052121	10562410007	745256	IS2	SWSD0039-052621	SWSD0028
SWSD0029-052121	10562410008	745257	IS1	SWSD0039-052621	SWSD0029
SWSD0030-052321	10562410009	745257	IS8	SWSD0039-052621	SWSD0030
SWSD0031-052321	10562410010	745257	IS7	SWSD0039-052621	SWSD0031
SWSD0032-052321	10562410011	745257	IS6	SWSD0039-052621	SWSD0032
SWSD0033-052321	10562410012	745257	IS5	SWSD0039-052621	SWSD0033
SWSD0034-052321	10562410013	745257	IS4	SWSD0039-052621	SWSD0034
SWSD0035-052321	10562410014	745257	IS3	SWSD0039-052621	SWSD0035
SWSD0036-052321	10562410015	745257	IS2	SWSD0039-052621	SWSD0036
SWSD0037-052321	10562410016	745258	IS1-N	SWSD0039-052621	SWSD0037
SWSD0038-052321	10562410017	745258	IS1-D	SWSD0039-052621	SWSD0038
SWSD0039-052621	10562410018	745915	FB	SWSD0039-052621	SWSD0039
SWSD0040-052321	10562410019	745259	IS2	SWSD0039-052621	SWSD0040
SWSD0041-052321	insufficient volume for TSS analaysis				
SWSD0042-052421	10562410021	745260	IS5	SWSD0048-052621	SWSD0042

LABORATORY DATA DATA VALIDATION CHECKLIST FOR GRAVIMETRIC

SWSD0043-052321	10562410022	745257	IS4	SWSD0048-052621	SWSD0043
SWSD0044-052221	10562410023	745257	IS3	SWSD0048-052621	SWSD0044
SWSD0045-052121	10562410024	745257	IS2	SWSD0048-052621	SWSD0045
SWSD0046-052121	10562410025	745257	IS1-N	SWSD0048-052621	SWSD0046
SWSD0047-052121	10562410026	745257	IS1-D	SWSD0048-052621	SWSD0047
SWSD0048-052621	10562410027	745915	FB	SWSD0048-052621	SWSD0048
SWSD0049-052321	insufficient volume for TSS analaysis				
SWSD0050-052321	insufficient volume for TSS analaysis				
SWSD0051-052321	insufficient volume for TSS analaysis				
SWSD0052-052321	insufficient volume for TSS analaysis				

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	05/28/2021, 05/29/2021, 06/02/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

LABORATORY DATA DATA VALIDATION CHECKLIST FOR GRAVIMETRIC

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y___ N_X_
Were any data flagged because of LDS problems?	Y___ N_X_

Describe corrective actions taken because of LDS problems.

***QC Batch 745256**, laboratory duplicates 3975019 and 3975020 RPDs > 10% between the parent and duplicate samples. Neither parent sample, 10561544001 and 10561545001, were project associated so cannot be assessed for similarity to project samples or reliability of the result, Therefore, no data were qualified.*

***QC Batch 745257**, laboratory duplicate 3975024 had RPDs >10% between the parent and duplicate samples. Both primary and duplicate results were <5X the RL and the absolute difference between primary and duplicate results was < the RL thus, no TSS results were qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2019); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562410
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021,	**Analysis Date(s):**	06/14/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/22/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0022-052321	10562410001	748856	IS8	SWSD0039-052621	SWSD0022
SWSD0023-052321	10562410002	748856	IS7	SWSD0039-052621	SWSD0023
SWSD0024-052321	10562410003	748856	IS6	SWSD0039-052621	SWSD0024
SWSD0025-052121	10562410004	748856	IS5	SWSD0039-052621	SWSD0025
SWSD0026-052121	10562410005	748856	IS4	SWSD0039-052621	SWSD0026
SWSD0027-052121	10562410006	748856	IS3	SWSD0039-052621	SWSD0027
SWSD0028-052121	10562410007	748856	IS2	SWSD0039-052621	SWSD0028
SWSD0029-052121	10562410008	748856	IS1	SWSD0039-052621	SWSD0029
SWSD0030-052321	10562410009	748856	IS8	SWSD0039-052621	SWSD0030
SWSD0031-052321	10562410010	748856	IS7	SWSD0039-052621	SWSD0031
SWSD0032-052321	10562410011	748856	IS6	SWSD0039-052621	SWSD0032
SWSD0033-052321	10562410012	748856	IS5	SWSD0039-052621	SWSD0033
SWSD0034-052321	10562410013	748856	IS4	SWSD0039-052621	SWSD0034
SWSD0035-052321	10562410014	748856	IS3	SWSD0039-052621	SWSD0035
SWSD0036-052321	10562410015	748856	IS2	SWSD0039-052621	SWSD0036
SWSD0037-052321	10562410016	748856	IS1-N	SWSD0039-052621	SWSD0037
SWSD0038-052321	10562410017	748856	IS1-D	SWSD0039-052621	SWSD0038
SWSD0039-052621	10562410018	748856	FB	SWSD0039-052621	SWSD0039
SWSD0040-052321	10562410019	748857	IS2	SWSD0039-052621	SWSD0040
SWSD0041-052321	insufficient volume for sulfate analysis				
SWSD0042-052421	10562410021	748857	IS5	SWSD0048-052621	SWSD0042

LABORATORY DATA DATA VALIDATION CHECKLIST FOR SULFATE

SWSD0043-052321	10562410022	748857	IS4	SWSD0048-052621	SWSD0043
SWSD0044-052221	10562410023	748857	IS3	SWSD0048-052621	SWSD0044
SWSD0045-052121	10562410024	748857	IS2	SWSD0048-052621	SWSD0045
SWSD0046-052121	10562410025	748857	IS1-N	SWSD0048-052621	SWSD0046
SWSD0047-052121	10562410026	748857	IS1-D	SWSD0048-052621	SWSD0047
SWSD0048-052621	10562410027	748857	FB	SWSD0048-052621	SWSD0048
SWSD0049-052321	insufficient volume for sulfate analysis				
SWSD0050-052321	insufficient volume for sulfate analysis				
SWSD0051-052321	insufficient volume for sulfate analysis				
SWSD0052-052321	insufficient volume for sulfate analysis				

LABORATORY DATA DATA VALIDATION CHECKLIST FOR SULFATE

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	06/14/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were the LCS/LCSD within control window of 80-120% recovery? Y_X_ N___

Was the LCS/LCSD ≤ 20% relative percent difference (RPD)? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 748856, *MSD 3994719 recovery was <80%. Associated SO4 sample results SWSD0030-SWSD0038 were collected in the same drainage as the parent sample (SWSD0037), thus of a similar matrix. Sulfate results for these samples were > MDL and qualified J-. Field blanks are not assessed for MS/MSD recoveries since they are of a differing matrix.*

LABORATORY DATA DATA VALIDATION CHECKLIST FOR SULFATE

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2019); USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, January 2017)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10562410
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021,		
Data Validator:	Nadia Reed	**Validation Date:**	7/22/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0022-052321	10562410001	IS8	SWSD0039-052621	SWSD0022
SWSD0023-052321	10562410002	IS7	SWSD0039-052621	SWSD0023
SWSD0024-052321	10562410003	IS6	SWSD0039-052621	SWSD0024
SWSD0025-052121	10562410004	IS5	SWSD0039-052621	SWSD0025
SWSD0026-052121	10562410005	IS4	SWSD0039-052621	SWSD0026
SWSD0027-052121	10562410006	IS3	SWSD0039-052621	SWSD0027
SWSD0028-052121	10562410007	IS2	SWSD0039-052621	SWSD0028
SWSD0029-052121	10562410008	IS1	SWSD0039-052621	SWSD0029
SWSD0030-052321	10562410009	IS8	SWSD0039-052621	SWSD0030
SWSD0031-052321	10562410010	IS7	SWSD0039-052621	SWSD0031
SWSD0032-052321	10562410011	IS6	SWSD0039-052621	SWSD0032
SWSD0033-052321	10562410012	IS5	SWSD0039-052621	SWSD0033
SWSD0034-052321	10562410013	IS4	SWSD0039-052621	SWSD0034
SWSD0035-052321	10562410014	IS3	SWSD0039-052621	SWSD0035
SWSD0036-052321	10562410015	IS2	SWSD0039-052621	SWSD0036
SWSD0037-052321	10562410016	IS1-N	SWSD0039-052621	SWSD0037
SWSD0038-052321	10562410017	IS1-D	SWSD0039-052621	SWSD0038
SWSD0039-052621	10562410018	FB	SWSD0039-052621	SWSD0039
SWSD0040-052321	10562410019	IS2	SWSD0039-052621	SWSD0040

DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

SWSD0041-052321	10562410020	IS1	SWSD0039-052621	SWSD0041
SWSD0042-052421	10562410021	IS5	SWSD0048-052621	SWSD0042
SWSD0043-052321	10562410022	IS4	SWSD0048-052621	SWSD0043
SWSD0044-052221	10562410023	IS3	SWSD0048-052621	SWSD0044
SWSD0045-052121	10562410024	IS2	SWSD0048-052621	SWSD0045
SWSD0046-052121	10562410025	IS1-N	SWSD0048-052621	SWSD0046
SWSD0047-052121	10562410026	IS1-D	SWSD0048-052621	SWSD0047
SWSD0048-052621	10562410027	FB	SWSD0048-052621	SWSD0048
SWSD0049-052321	10562410028	AS	SWSD0048-052621	SWSD0049
SWSD0050-052321	10562410029	AS	SWSD0048-052621	SWSD0050
SWSD0051-052321	10562410030	AS	SWSD0048-052621	SWSD0051
SWSD0052-052321	10562410031	AS	SWSD0048-052621	SWSD0052

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	06/10/2021
Total Mercury	Aqueous	EPA 245.1	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	06/10/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	6/10/21, 6/11/21, 6/12/21, 6/15/21
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	5/28/21, 5/29/21, 6/2/21, 6/10/21, 6/11/21, 6/14/21, 6/16/21
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	05/28/2021, 05/29/2021, 06/02/2021
Sulfate (SO4)	Aqueous	ASTM D516	5/21/2021, 5/22/2021, 5/23/2021, 5/24/2021, 5/26/2021	06/14/2021

DATA VALIDATION CHECKLIST FOR FIELD QUALITY CONTROL

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

CuTR was detected in FB SWSD0039 at a concentration of >1.5X MDL. Associated CuTR results SWSD0022-SWSD0029, SWSD0040, and SWSD0041 were >10X FB detection thus, were not qualified. CuTR results SWSD0030-SWSD0038 were >RL, but ≤ 10X FB detection and qualified J+.

PbTR was detected in FB SWSD0039 at a concentration of >1.5X MDL. PbTR results SWSD0022-SWSD0029, SWSD0032, SWSD0034, SWSD0040, and SWSD0041 were >10X FB detection and were not qualified. Associated PbTR results SWSD0030, SWSD0031, SWSD0033, and SWSD0035-SWSD0038 were >RL, but ≤ 10X FB detection and were qualified J+.

PbTR was detected in FB SWSD0048 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

In field duplicate set SWSD0037/SWSD0038, RPDs between primary and duplicate CdTR, CuDis, FeDis, PbDis, and TSS results were > 20%. Both the primary and duplicate CdTR, FeDis, PbDis, and TSS results were <5X the RL and the absolute difference between primary and duplicate samples were < RL, so no quaifications resulted. Primary and duplicate CuDis results were <5X the RL, but the difference between the two results was > the RL. Associated CuDis results in samples SWSD0022-SWSD0038 and SWSD0040 were > the MDL and qualified J.

In field duplicate set SWSD0046/SWSD0047, RPDs between primary and duplicate TSS results were > 20%. Both the primary and duplicate TSS results were <5X the RL and the absolute difference between primary and duplicate samples was < RL, so no qualifications resulted.

Field blanks are not assessed for field duplicate precision because they are of a differing matrix.

Additional Comments

DATA VALIDATION SUMMERY FOR SDG 10563136

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10563136
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	5/25/2021, 05/26/2021, 06/01/2021		
Data Validator:	Nadia Reed	**Validation Date:**	7/23/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	5/25/2021, 05/26/2021, 06/01/2021	06/16/2021
Total Mercury	Aqueous	EPA 245.1	5/25/2021, 05/26/2021, 06/01/2021	06/16/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/25/2021, 05/26/2021, 06/01/2021	06/16/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/25/2021, 05/26/2021, 06/01/2021	06/17/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/25/2021, 05/26/2021, 06/01/2021	6/2/21-6/4/21, 6/7/21
Sulfate (SO4)	Aqueous	ASTM D516	5/25/2021, 05/26/2021, 06/01/2021	06/15/2021, 06/16/2021

Were Level A field documentation and QA/QC practices met for this data set? Y_X_ N___

Were Level B field documentation and QA/QC practices met for this data set? Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	493	429	365	64	0
Percentage		87%	85%	15%	0%

Analyses of this sample set resulted in 429 natural sample data points. Of these natural data points, 365 (85%) had no associated quality control deficiencies and are defined as enforcement quality while, 64 (15%) data points had quality control deficiencies and are defined as screening quality. Of the 64 screening quality data points 12 were coded "MS" due lab accuracy criteria not being met, 9 were coded "HT" due to holding time being exceeded, 2 were coded "RPD" due to lab precision criteria not being met, 15 were coded "FB" due to field accuracy criteria not being met, 9 were coded FD due to field precision not being met. Six results were qualified for both field precision (FD code) and holding time being exceeded (HT code) and 11 were qualified for field precision (FD code) and laboratory accuracy (MS code). One sample did not have sufficient volume for dissolved metals and mercury, TSS, and sulfate analysis. One sample did not have sufficient volume for total mercury, dissolved metals and mercury, TSS, and sulfate analysis. No data were rejected, but only 429 of the anticipated 448 data points were collected, thus completeness is 96%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347.0124	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10563136	
Matrix:	Aqueous		**Analysis:**	Total and Dissolved Mercury	
Sample Date(s):	5/25/2021, 05/26/2021, 06/01/2021		**Analysis Date(s):**	06/16/2021, 06/16/2021	
Data Validator:	Nadia Reed		**Validation Date:**	7/23/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Mercury					
SWSD0053-052621	10563136001	748817	IS8	SWSD0069-060121	SWSD0053
SWSD0054-052621	10563136002	748817	IS7	SWSD0069-060121	SWSD0054
SWSD0055-052521	10563136003	748817	IS6	SWSD0069-060121	SWSD0055
SWSD0056-052521	10563136004	748817	IS5	SWSD0069-060121	SWSD0056
SWSD0057-052521	10563136005	748817	IS4	SWSD0069-060121	SWSD0057
SWSD0058-052521	10563136006	748817	IS3	SWSD0069-060121	SWSD0058
SWSD0059-052521	10563136007	748817	IS2	SWSD0069-060121	SWSD0059
SWSD0060-052521	10563136008	748817	IS1	SWSD0069-060121	SWSD0060
SWSD0061-052621	10563136009	748817	IS1	SWSD0069-060121	SWSD0061
SWSD0062-052621	10563136010	748817	IS6	SWSD0069-060121	SWSD0062
SWSD0063-052621	10563136011	748817	IS5	SWSD0069-060121	SWSD0063
SWSD0064-052621	10563136012	748817	IS4	SWSD0069-060121	SWSD0064
SWSD0065-052621	10563136013	748817	IS3	SWSD0069-060121	SWSD0065
SWSD0066-052621	10563136014	748817	IS2	SWSD0069-060121	SWSD0066
SWSD0067-052621	10563136015	748817	IS1-N	SWSD0069-060121	SWSD0067
SWSD0068-052621	10563136016	748817	IS1-D	SWSD0069-060121	SWSD0068
SWSD0069-060121	10563136017	748817	FB	SWSD0069-060121	SWSD0069
SWSD0070-052621	10563136018	748818	IS8	SWSD0079-060121	SWSD0070
SWSD0071-052621	10563136019	748818	IS7	SWSD0079-060121	SWSD0071
SWSD0072-052621	10563136020	748818	IS6	SWSD0079-060121	SWSD0072
SWSD0073-052621	10563136021	748818	IS5	SWSD0079-060121	SWSD0073
SWSD0074-052621	10563136022	748818	IS4	SWSD0079-060121	SWSD0074
SWSD0075-052621	10563136023	748818	IS3	SWSD0079-060121	SWSD0075
SWSD0076-052621	10563136024	748818	IS2	SWSD0079-060121	SWSD0076
SWSD0077-052621	10563136025	748818	IS1-N	SWSD0079-060121	SWSD0077
SWSD0078-052621	10563136026	748818	IS1-D	SWSD0079-060121	SWSD0078
SWSD0079-060121	10563136027	748818	FB	SWSD0079-060121	SWSD0079
SWSD0080-052621	10563136028	748818	IS3	SWSD0079-060121	SWSD0080
SWSD0081-052621	10563136029	748818	IS2	SWSD0079-060121	SWSD0081
SWSD0082-052521	10563136030	748818	IS1	SWSD0079-060121	SWSD0082
SWSD0083-052621	insufficient volume for dissolved mercury analysis				

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0084-052621	insufficient volume for dissolved mercury analysis				
Total Mercury					
SWSD0053-052621	10563136001	748812	IS8	SWSD0069-060121	SWSD0053
SWSD0054-052621	10563136002	748812	IS7	SWSD0069-060121	SWSD0054
SWSD0055-052521	10563136003	748812	IS6	SWSD0069-060121	SWSD0055
SWSD0056-052521	10563136004	748812	IS5	SWSD0069-060121	SWSD0056
SWSD0057-052521	10563136005	748812	IS4	SWSD0069-060121	SWSD0057
SWSD0058-052521	10563136006	748812	IS3	SWSD0069-060121	SWSD0058
SWSD0059-052521	10563136007	748812	IS2	SWSD0069-060121	SWSD0059
SWSD0060-052521	10563136008	748812	IS1	SWSD0069-060121	SWSD0060
SWSD0061-052621	10563136009	748812	IS1	SWSD0069-060121	SWSD0061
SWSD0062-052621	10563136010	748812	IS6	SWSD0069-060121	SWSD0062
SWSD0063-052621	10563136011	748812	IS5	SWSD0069-060121	SWSD0063
SWSD0064-052621	10563136012	748812	IS4	SWSD0069-060121	SWSD0064
SWSD0065-052621	10563136013	748812	IS3	SWSD0069-060121	SWSD0065
SWSD0066-052621	10563136014	748812	IS2	SWSD0069-060121	SWSD0066
SWSD0067-052621	10563136015	748812	IS1-N	SWSD0069-060121	SWSD0067
SWSD0068-052621	10563136016	748812	IS1-D	SWSD0069-060121	SWSD0068
SWSD0069-060121	10563136017	748812	FB	SWSD0069-060121	SWSD0069
SWSD0070-052621	10563136018	748813	IS8	SWSD0079-060121	SWSD0070
SWSD0071-052621	10563136019	748813	IS7	SWSD0079-060121	SWSD0071
SWSD0072-052621	10563136020	748813	IS6	SWSD0079-060121	SWSD0072
SWSD0073-052621	10563136021	748813	IS5	SWSD0079-060121	SWSD0073
SWSD0074-052621	10563136022	748813	IS4	SWSD0079-060121	SWSD0074
SWSD0075-052621	10563136023	748813	IS3	SWSD0079-060121	SWSD0075
SWSD0076-052621	10563136024	748813	IS2	SWSD0079-060121	SWSD0076
SWSD0077-052621	10563136025	748813	IS1-N	SWSD0079-060121	SWSD0077
SWSD0078-052621	10563136026	748813	IS1-D	SWSD0079-060121	SWSD0078
SWSD0079-060121	10563136027	748813	FB	SWSD0079-060121	SWSD0079
SWSD0080-052621	10563136028	748813	IS3	SWSD0079-060121	SWSD0080
SWSD0081-052621	10563136029	748813	IS2	SWSD0079-060121	SWSD0081
SWSD0082-052521	10563136030	748813	IS1	SWSD0079-060121	SWSD0082
SWSD0083-052621	10563136031	748813	AS	SWSD0079-060121	SWSD0083
SWSD0084-052621	insufficient volume for total mercury analysis				

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	5/25/2021, 05/26/2021, 06/01/2021	06/16/2021	No
Total Mercury	Aqueous	EPA 245.1	5/25/2021, 05/26/2021, 06/01/2021	06/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347.0124	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10563136	
Matrix:	Aqueous		**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn	
Sample Date(s):	5/25/2021, 05/26/2021, 06/01/2021		**Analysis Date(s):**	06/16/2021, 06/17/2021	
Data Validator:	Nadia Reed		**Validation Date:**	7/23/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWSD0053-052621	10563136001	748722	IS8	SWSD0069-060121	SWSD0053
SWSD0054-052621	10563136002	748722	IS7	SWSD0069-060121	SWSD0054
SWSD0055-052521	10563136003	748722	IS6	SWSD0069-060121	SWSD0055
SWSD0056-052521	10563136004	748722	IS5	SWSD0069-060121	SWSD0056
SWSD0057-052521	10563136005	748722	IS4	SWSD0069-060121	SWSD0057
SWSD0058-052521	10563136006	748722	IS3	SWSD0069-060121	SWSD0058
SWSD0059-052521	10563136007	748722	IS2	SWSD0069-060121	SWSD0059
SWSD0060-052521	10563136008	748722	IS1	SWSD0069-060121	SWSD0060
SWSD0061-052621	10563136009	748722	IS1	SWSD0069-060121	SWSD0061
SWSD0062-052621	10563136010	748722	IS6	SWSD0069-060121	SWSD0062
SWSD0063-052621	10563136011	748722	IS5	SWSD0069-060121	SWSD0063
SWSD0064-052621	10563136012	748722	IS4	SWSD0069-060121	SWSD0064
SWSD0065-052621	10563136013	748722	IS3	SWSD0069-060121	SWSD0065
SWSD0066-052621	10563136014	748722	IS2	SWSD0069-060121	SWSD0066
SWSD0067-052621	10563136015	748722	IS1-N	SWSD0069-060121	SWSD0067
SWSD0068-052621	10563136016	748722	IS1-D	SWSD0069-060121	SWSD0068
SWSD0069-060121	10563136017	748722	FB	SWSD0069-060121	SWSD0069
SWSD0070-052621	10563136018	748724	IS8	SWSD0079-060121	SWSD0070
SWSD0071-052621	10563136019	748724	IS7	SWSD0079-060121	SWSD0071
SWSD0072-052621	10563136020	748724	IS6	SWSD0079-060121	SWSD0072
SWSD0073-052621	10563136021	748724	IS5	SWSD0079-060121	SWSD0073
SWSD0074-052621	10563136022	748724	IS4	SWSD0079-060121	SWSD0074
SWSD0075-052621	10563136023	748724	IS3	SWSD0079-060121	SWSD0075
SWSD0076-052621	10563136024	748724	IS2	SWSD0079-060121	SWSD0076
SWSD0077-052621	10563136025	748724	IS1-N	SWSD0079-060121	SWSD0077
SWSD0078-052621	10563136026	748724	IS1-D	SWSD0079-060121	SWSD0078
SWSD0079-060121	10563136027	748724	FB	SWSD0079-060121	SWSD0079
SWSD0080-052621	10563136028	748724	IS3	SWSD0079-060121	SWSD0080
SWSD0081-052621	10563136029	748724	IS2	SWSD0079-060121	SWSD0081
SWSD0082-052521	10563136030	748724	IS1	SWSD0079-060121	SWSD0082
SWSD0083-052621	insufficient volume for dissolved metals analysis				
SWSD0084-052621	insufficient volume for dissolved metals analysis				

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Total Metals					
SWSD0053-052621	10563136001	748730	IS8	SWSD0069-060121	SWSD0053
SWSD0054-052621	10563136002	748730	IS7	SWSD0069-060121	SWSD0054
SWSD0055-052521	10563136003	748730	IS6	SWSD0069-060121	SWSD0055
SWSD0056-052521	10563136004	748730	IS5	SWSD0069-060121	SWSD0056
SWSD0057-052521	10563136005	748730	IS4	SWSD0069-060121	SWSD0057
SWSD0058-052521	10563136006	748730	IS3	SWSD0069-060121	SWSD0058
SWSD0059-052521	10563136007	748730	IS2	SWSD0069-060121	SWSD0059
SWSD0060-052521	10563136008	748730	IS1	SWSD0069-060121	SWSD0060
SWSD0061-052621	10563136009	748730	IS1	SWSD0069-060121	SWSD0061
SWSD0062-052621	10563136010	748730	IS6	SWSD0069-060121	SWSD0062
SWSD0063-052621	10563136011	748730	IS5	SWSD0069-060121	SWSD0063
SWSD0064-052621	10563136012	748730	IS4	SWSD0069-060121	SWSD0064
SWSD0065-052621	10563136013	748730	IS3	SWSD0069-060121	SWSD0065
SWSD0066-052621	10563136014	748730	IS2	SWSD0069-060121	SWSD0066
SWSD0067-052621	10563136015	748730	IS1-N	SWSD0069-060121	SWSD0067
SWSD0068-052621	10563136016	748730	IS1-D	SWSD0069-060121	SWSD0068
SWSD0069-060121	10563136017	748730	FB	SWSD0069-060121	SWSD0069
SWSD0070-052621	10563136018	748732	IS8	SWSD0079-060121	SWSD0070
SWSD0071-052621	10563136019	748732	IS7	SWSD0079-060121	SWSD0071
SWSD0072-052621	10563136020	748732	IS6	SWSD0079-060121	SWSD0072
SWSD0073-052621	10563136021	748732	IS5	SWSD0079-060121	SWSD0073
SWSD0074-052621	10563136022	748732	IS4	SWSD0079-060121	SWSD0074
SWSD0075-052621	10563136023	748732	IS3	SWSD0079-060121	SWSD0075
SWSD0076-052621	10563136024	748732	IS2	SWSD0079-060121	SWSD0076
SWSD0077-052621	10563136025	748732	IS1-N	SWSD0079-060121	SWSD0077
SWSD0078-052621	10563136026	748732	IS1-D	SWSD0079-060121	SWSD0078
SWSD0079-060121	10563136027	748732	FB	SWSD0079-060121	SWSD0079
SWSD0080-052621	10563136028	748732	IS3	SWSD0079-060121	SWSD0080
SWSD0081-052621	10563136029	748732	IS2	SWSD0079-060121	SWSD0081
SWSD0082-052521	10563136030	748732	IS1	SWSD0079-060121	SWSD0082
SWSD0083-052621	10563136031	748732	AS	SWSD0079-060121	SWSD0083
SWSD0084-052621	10563136032	748732	AS	SWSD0079-060121	SWSD0084

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/25/2021, 05/26/2021, 06/01/2021	06/16/2021	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/25/2021, 05/26/2021, 06/01/2021	06/17/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Were method blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y___ N_X_
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
QC Batch 748732 *, CuTR was detected in MB 3994336 at a concentration >1.5X MDL. All associated CuTR results were >10X the MB detection or < the MDL, so no data were qualified.*	
3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of ICS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10563136
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	5/25/2021, 05/26/2021, 06/01/2021	**Analysis Date(s):**	6/2/21-6/4/21, 6/7/21
Data Validator:	Nadia Reed	**Validation Date:**	7/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0053-052621	10563136001	745916	IS8	SWSD0069-060121	SWSD0053
SWSD0054-052621	10563136002	745916	IS7	SWSD0069-060121	SWSD0054
SWSD0055-052521	10563136003	746233	IS6	SWSD0069-060121	SWSD0055
SWSD0056-052521	10563136004	746233	IS5	SWSD0069-060121	SWSD0056
SWSD0057-052521	10563136005	746233	IS4	SWSD0069-060121	SWSD0057
SWSD0058-052521	10563136006	746233	IS3	SWSD0069-060121	SWSD0058
SWSD0059-052521	10563136007	746233	IS2	SWSD0069-060121	SWSD0059
SWSD0060-052521	10563136008	746233	IS1	SWSD0069-060121	SWSD0060
SWSD0061-052621	10563136009	745916	IS1	SWSD0069-060121	SWSD0061
SWSD0062-052621	10563136010	745916	IS6	SWSD0069-060121	SWSD0062
SWSD0063-052621	10563136011	745916	IS5	SWSD0069-060121	SWSD0063
SWSD0064-052621	10563136012	745916	IS4	SWSD0069-060121	SWSD0064
SWSD0065-052621	10563136013	745916	IS3	SWSD0069-060121	SWSD0065
SWSD0066-052621	10563136014	745916	IS2	SWSD0069-060121	SWSD0066
SWSD0067-052621	10563136015	745916	IS1-N	SWSD0069-060121	SWSD0067
SWSD0068-052621	10563136016	745916	IS1-D	SWSD0069-060121	SWSD0068
SWSD0069-060121	10563136017	746698	FB	SWSD0069-060121	SWSD0069
SWSD0070-052621	10563136018	745916	IS8	SWSD0079-060121	SWSD0070
SWSD0071-052621	10563136019	745916	IS7	SWSD0079-060121	SWSD0071
SWSD0072-052621	10563136020	746233	IS6	SWSD0079-060121	SWSD0072
SWSD0073-052621	10563136021	746233	IS5	SWSD0079-060121	SWSD0073
SWSD0074-052621	10563136022	746233	IS4	SWSD0079-060121	SWSD0074
SWSD0075-052621	10563136023	746233	IS3	SWSD0079-060121	SWSD0075
SWSD0076-052621	10563136024	746233	IS2	SWSD0079-060121	SWSD0076
SWSD0077-052621	10563136025	746233	IS1-N	SWSD0079-060121	SWSD0077
SWSD0078-052621	10563136026	746233	IS1-D	SWSD0079-060121	SWSD0078
SWSD0079-060121	10563136027	747221	FB	SWSD0079-060121	SWSD0079
SWSD0080-052621	10563136028	746233	IS3	SWSD0079-060121	SWSD0080
SWSD0081-052621	10563136029	746233	IS2	SWSD0079-060121	SWSD0081
SWSD0082-052521	10563136030	746233	IS1	SWSD0079-060121	SWSD0082

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

SWSD0083-052621	insufficient volume for TSS analysis
SWSD0084-052621	insufficient volume for TSS analysis

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/25/2021, 05/26/2021, 06/01/2021	6/2/21-6/4/21, 6/7/21	Yes

Describe corrective actions taken because of holding time problems.

QC Batch 746233, *samples SWSD0055-SWSD0060, SWSD0072-SWSD0078, and SWSD0080-SWSD0082 were analyzed past the 7-day method holding time. TSS results for these samples were qualified J-.*

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y_X_ N___

Describe corrective actions taken because of LDS problems.

QC Batch 745916 *, Laboratory duplicate 3978881 RPD >10%. The parent and duplicate samples were < 5X the RL but the absolute difference between the parent and duplicate samples was > RL. The TSS result for the parent sample (SWSD0070) was 5 to 37 times less than all but one other TSS result in this QC batch. Given the dissimilar TSS results, only the parent sample SWSD0070 TSS result and sample SWSD0071 TSS result were qualified for laboratory precision.*

QC Batch 747221 *, Laboratory duplicate 3985962 RPD >10%. The parenty sample (10563941001) was not project associated so sample collection conditions and reliability of the parent sample result cannot be determined thus, the single TSS result in this QC batch was not qualified.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWSD0053-052621	10563136001	748994	IS8	SWSD0069-060121	SWSD0053
SWSD0054-052621	10563136002	748994	IS7	SWSD0069-060121	SWSD0054
SWSD0055-052521	10563136003	749094	IS6	SWSD0069-060121	SWSD0055
SWSD0056-052521	10563136004	749094	IS5	SWSD0069-060121	SWSD0056
SWSD0057-052521	10563136005	749094	IS4	SWSD0069-060121	SWSD0057
SWSD0058-052521	10563136006	749094	IS3	SWSD0069-060121	SWSD0058
SWSD0059-052521	10563136007	749094	IS2	SWSD0069-060121	SWSD0059
SWSD0060-052521	10563136008	749094	IS1	SWSD0069-060121	SWSD0060
SWSD0061-052621	10563136009	749094	IS1	SWSD0069-060121	SWSD0061
SWSD0062-052621	10563136010	749094	IS6	SWSD0069-060121	SWSD0062
SWSD0063-052621	10563136011	749677	IS5	SWSD0069-060121	SWSD0063
SWSD0064-052621	10563136012	749677	IS4	SWSD0069-060121	SWSD0064
SWSD0065-052621	10563136013	749677	IS3	SWSD0069-060121	SWSD0065
SWSD0066-052621	10563136014	749677	IS2	SWSD0069-060121	SWSD0066
SWSD0067-052621	10563136015	749677	IS1-N	SWSD0069-060121	SWSD0067
SWSD0068-052621	10563136016	749677	IS1-D	SWSD0069-060121	SWSD0068
SWSD0069-060121	10563136017	749677	FB	SWSD0069-060121	SWSD0069
SWSD0070-052621	10563136018	749677	IS8	SWSD0079-060121	SWSD0070
SWSD0071-052621	10563136019	749677	IS7	SWSD0079-060121	SWSD0071
SWSD0072-052621	10563136020	749677	IS6	SWSD0079-060121	SWSD0072
SWSD0073-052621	10563136021	749677	IS5	SWSD0079-060121	SWSD0073
SWSD0074-052621	10563136022	749677	IS4	SWSD0079-060121	SWSD0074
SWSD0075-052621	10563136023	749677	IS3	SWSD0079-060121	SWSD0075
SWSD0076-052621	10563136024	749677	IS2	SWSD0079-060121	SWSD0076
SWSD0077-052621	10563136025	749677	IS1-N	SWSD0079-060121	SWSD0077
SWSD0078-052621	10563136026	749677	IS1-D	SWSD0079-060121	SWSD0078
SWSD0079-060121	10563136027	749677	FB	SWSD0079-060121	SWSD0079
SWSD0080-052621	10563136028	749677	IS3	SWSD0079-060121	SWSD0080
SWSD0081-052621	10563136029	749677	IS2	SWSD0079-060121	SWSD0081
SWSD0082-052521	10563136030	749677	IS1	SWSD0079-060121	SWSD0082
SWSD0083-052621	insufficient volume for sulfate analysis				
SWSD0084-052621	insufficient volume for sulfate analysis				

1. Holding Times

Analyte	**Matrix**	**Method**	**Collection Date**	**Analysis Date**	**Affected data flagged**
Sulfate (SO4)	Aqueous	ASTM D516	5/25/2021, 05/26/2021, 06/01/2021	06/15/2021, 06/16/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)	
Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
***QC Batch 749094**, MS 3995843 MSD 3995844 recoveries >120%. Associated SO4 sample results SWSD0055-SWSD0060 and SWSD0062 were ≥MDL and were qualified J+. The SO4 result for SWSD0061 was considerably higher than all other SO4 results in this QC batch. The TSS result for SWSD0061 was also considerably higher than TSS results for the other samples in this QC batch. Sample SWSD0061 was judged to be of a dissimilar matrix, thus, the SO4 result for this sample was not qualified based on the high MS/MSD recoveries.*	
***QC Batch 749677**, MS 3998652 MSD 3998653 recoveries <80%. Associated SO4 sample results SWSD0063-SWSD0068, SWSD0070-SWSD0078, and SWSD0080-SWSD0082 were ≥MDL and qualified J-. All of these sulfate results were similar.*	
Field blanks are not qualified for MS/MSD recoveries since they are of a dissimilar matrix than the parent samples.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10563136
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	5/25/2021, 05/26/2021, 06/01/2021		
Data Validator:	Nadia Reed	**Validation Date:**	7/23/2021

Sample Delivery Group				
Field Sample ID	**Lab Sample ID**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
SWSD0053-052621	10563136001	IS8	SWSD0069-060121	SWSD0053
SWSD0054-052621	10563136002	IS7	SWSD0069-060121	SWSD0054
SWSD0055-052521	10563136003	IS6	SWSD0069-060121	SWSD0055
SWSD0056-052521	10563136004	IS5	SWSD0069-060121	SWSD0056
SWSD0057-052521	10563136005	IS4	SWSD0069-060121	SWSD0057
SWSD0058-052521	10563136006	IS3	SWSD0069-060121	SWSD0058
SWSD0059-052521	10563136007	IS2	SWSD0069-060121	SWSD0059
SWSD0060-052521	10563136008	IS1	SWSD0069-060121	SWSD0060
SWSD0061-052621	10563136009	IS1	SWSD0069-060121	SWSD0061
SWSD0062-052621	10563136010	IS6	SWSD0069-060121	SWSD0062
SWSD0063-052621	10563136011	IS5	SWSD0069-060121	SWSD0063
SWSD0064-052621	10563136012	IS4	SWSD0069-060121	SWSD0064
SWSD0065-052621	10563136013	IS3	SWSD0069-060121	SWSD0065
SWSD0066-052621	10563136014	IS2	SWSD0069-060121	SWSD0066
SWSD0067-052621	10563136015	IS1-N	SWSD0069-060121	SWSD0067
SWSD0068-052621	10563136016	IS1-D	SWSD0069-060121	SWSD0068
SWSD0069-060121	10563136017	FB	SWSD0069-060121	SWSD0069
SWSD0070-052621	10563136018	IS8	SWSD0079-060121	SWSD0070
SWSD0071-052621	10563136019	IS7	SWSD0079-060121	SWSD0071
SWSD0072-052621	10563136020	IS6	SWSD0079-060121	SWSD0072
SWSD0073-052621	10563136021	IS5	SWSD0079-060121	SWSD0073
SWSD0074-052621	10563136022	IS4	SWSD0079-060121	SWSD0074
SWSD0075-052621	10563136023	IS3	SWSD0079-060121	SWSD0075
SWSD0076-052621	10563136024	IS2	SWSD0079-060121	SWSD0076
SWSD0077-052621	10563136025	IS1-N	SWSD0079-060121	SWSD0077
SWSD0078-052621	10563136026	IS1-D	SWSD0079-060121	SWSD0078
SWSD0079-060121	10563136027	FB	SWSD0079-060121	SWSD0079
SWSD0080-052621	10563136028	IS3	SWSD0079-060121	SWSD0080
SWSD0081-052621	10563136029	IS2	SWSD0079-060121	SWSD0081
SWSD0082-052521	10563136030	IS1	SWSD0079-060121	SWSD0082

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWSD0083-052621	10563136031	AS	SWSD0079-060121	SWSD0083
SWSD0084-052621	10563136032	AS	SWSD0079-060121	SWSD0084
Analyte	**Matrix**	**Method**	**Collection Date**	**Analysis Date**
Dissolved Mercury	Aqueous	EPA 245.1	5/25/2021, 05/26/2021, 06/01/2021	06/16/2021
Total Mercury	Aqueous	EPA 245.1	5/25/2021, 05/26/2021, 06/01/2021	06/16/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/25/2021, 05/26/2021, 06/01/2021	06/16/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	5/25/2021, 05/26/2021, 06/01/2021	06/17/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	5/25/2021, 05/26/2021, 06/01/2021	6/2/21-6/4/21, 6/7/21
Sulfate (SO4)	Aqueous	ASTM D516	5/25/2021, 05/26/2021, 06/01/2021	06/15/2021, 06/16/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y_X_ N___

Were any data qualified because of FB problems? Y_X_ N___

*CuDis was detected in **FB SWSD0069** at a concentration >1.5X MDL. Associated CuDis results in samples SWSD0053-SWSD0058, SWSD0060, SWSD0062, SWSD0064, SWSD0067, and SWSD0068 were > RL but ≤ 10X blank value and qualified J+. Associated CuDis sample results SWSD0059, SWSD0061, SWSD0063, SWSD0065, and SWSD0066 were > 10X blank value and were not qualified.*

*PbDis was detected in **FB SWSD0069** at a concentration >1.5X MDL. Associated PbDis results in samples SWSD0053, SWSD0055, SWSD0056, SWSD0060, SWSD0067, and SWSD0068 were > RL, but ≤ 10X blank value and qualified J+. Associated PbDis sample results SWSD0054, SWSD0057-SWSD0059, and SWSD0061-SWSD0066 were > 10X blank value and were not qualified.*

*PbTR was detected in **FB SWSD0069** at a concentration >1.5X MDL. Associated PbTR results in samples SWSD0053-SWSD0068 were >10X blank value and were not qualified.*

*PbTR was detected in **FB SWSD0079** at a concentration of >1.5X MDL. Associated PbTR results in samples SWSD0070-SWSD0078 and SWSD0080-SWSD0084 were >10X blank value and were not qualified.*

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP? Y_X_ N___

Were any data qualified because of FD results? Y_X_ N___

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

***In field duplicate set SWSD0067/SWSD0068** , RPDs between primary and duplicate CdDis and TSS results were > 20%. Both the primary and the duplicate TSS were >5X RL and TSS sample results SWSD0053-SWSD0068 ≥ MDL therefore qualified J. TSS results for SWSD0055-SWSD0060 were also quailfied for exceeding holding time and received overall J- qualiifiers.*
Both the primary and duplicate CdDis results <5X RL and the absolute difference between the primary and duplicate sample results was <RL, so no data were qualified.
***In field duplicate set SWSD0077/SWSD0078** , RPDs between primary and duplicate SO4 results were > 20%. The primary and duplicate sample SO4 results were both >5X the project RL; thus sulfate results in SWSD0070-SWSD0078 and SWSD0080-SWSD0082 were qualified J. These results were also qualified for a low MS recovery, so the overall qualifier was J-.*
FBs are not qualified based on FD results since they are of a much different matrix.

Additional Comments

DATA VALIDATION SUMMARY FOR SDG 10565533

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565533
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	6/10/2021, 6/11/2021, 6/15/2021	**Analysis Date(s):**	6/17/2021, 6/18/2021, 6/22/2021, 6/25/2021, 6/24/2021, 6/28/2021, 6/30/2021, 7/02/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/23/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	6/10/2021, 6/11/2021, 6/15/2021	6/24/2021, 6/28/2021
Total Mercury	Aqueous	EPA 245.1	6/10/2021, 6/11/2021, 6/15/2021	6/24/2021, 6/28/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	6/10/2021, 6/11/2021, 6/15/2021	6/30/2021, 7/02/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	6/10/2021, 6/11/2021, 6/15/2021	6/30/2021, 7/02/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	6/10/2021, 6/11/2021, 6/15/2021	6/17/2021, 6/18/2021, 6/22/2021
Sulfate (SO4)	Aqueous	ASTM D516	6/10/2021, 6/11/2021, 6/15/2021	6/25/2021

Were Level A field documentation and QA/QC practices met for this data set? Y_X_ N___

Were Level B field documentation and QA/QC practices met for this data set? Y__X__ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	535	471	454	17	0
Percentage		88%	96%	4%	0%

Analyses of this sample set resulted in 471 natural sample data points. Of these natural data points, 454 (96%) had no associated quality control deficiencies and are defined as enforcement quality while, 17 (4%) data points had quality control deficiencies and are defined as screening quality. Of the 17 screening quality data points; 16 were coded "MS" due to lab accuracy criteria not being met, and one was coded "RPD" due to lab precision criteria not being met. One sample had insufficient volume for dissolved metals and mercury, TSS, and sulfate analysis. Thus, of the 480 anticipated data points, 471 were collected. No data were rejected so completeness for this data set is 98%.

LABORATORY VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565533
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	6/10/2021, 6/11/2021, 6/15/2021	**Analysis Date(s):**	6/24/2021, 6/28/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0085-061021	10565533001	750528	IS6	SWSD0099-061521	SWSD0085
SWSD0086-061021	10565533002	750528	IS5	SWSD0099-061521	SWSD0086
SWSD0087-061021	10565533003	750528	IS4	SWSD0099-061521	SWSD0087
SWSD0088-061021	10565533004	750528	IS3	SWSD0099-061521	SWSD0088
SWSD0089-061021	10565533005	750528	IS2	SWSD0099-061521	SWSD0089
SWSD0090-061021	10565533006	750528	IS1	SWSD0099-061521	SWSD0090
SWSD0091-061021	10565533007	750528	IS1	SWSD0099-061521	SWSD0091
SWSD0092-061021	10565533008	750528	IS6	SWSD0099-061521	SWSD0092
SWSD0093-061021	10565533009	750528	IS5	SWSD0099-061521	SWSD0093
SWSD0094-061021	10565533010	750528	IS4	SWSD0099-061521	SWSD0094
SWSD0095-061021	10565533011	750528	IS3	SWSD0099-061521	SWSD0095
SWSD0096-061021	10565533012	750528	IS2	SWSD0099-061521	SWSD0096
SWSD0097-061021	10565533013	750528	IS1-N	SWSD0099-061521	SWSD0097
SWSD0098-061021	10565533014	750528	IS1-D	SWSD0099-061521	SWSD0098
SWSD0099-061521	10565533015	750528	FB	SWSD0099-061521	SWSD0099
SWSD0100-061021	10565533016	750529	IS7	SWSD0099-061521	SWSD0100
SWSD0101-061021	10565533017	750528	IS6	SWSD0099-061521	SWSD0101
SWSD0102-061021	10565533018	750528	IS5	SWSD0108-061521	SWSD0102
SWSD0103-061021	10565533019	750528	IS4	SWSD0108-061521	SWSD0103
SWSD0104-061021	10565533020	750528	IS3	SWSD0108-061521	SWSD0104
SWSD0105-061021	10565533021	750528	IS2	SWSD0108-061521	SWSD0105
SWSD0106-061021	10565533022	750529	IS1-N	SWSD0108-061521	SWSD0106
SWSD0107-061021	10565533023	750529	IS1-D	SWSD0108-061521	SWSD0107
SWSD0108-061521	10565533024	750529	FB	SWSD0108-061521	SWSD0108
SWSD0109-061121	10565533025	750529	IS8	SWSD0108-061521	SWSD0109
SWSD0110-061121	10565533026	750529	IS7	SWSD0108-061521	SWSD0110
SWSD0111-061021	10565533027	750529	IS6	SWSD0108-061521	SWSD0111
SWSD0112-061021	10565533028	750529	IS5	SWSD0108-061521	SWSD0112

LABORATORY VALIDATION CHECKLIST FOR MERCURY

SWSD0113-061021	10565533029	750529	IS4	SWSD0108-061521	SWSD0113
SWSD0114-061021	10565533030	750529	IS3	SWSD0108-061521	SWSD0114
SWSD0115-061021	10565533031	750529	IS2	SWSD0108-061521	SWSD0115
SWSD0116-061021	10565533032	750529	IS1	SWSD0108-061521	SWSD0116
SWSD0117-061021	Insufficient volume for dissolved mercury analysis				
SWSD0118-061021	10565533034	750529	AS	SWSD0108-061521	SWSD0118
Total Mercury					
SWSD0085-061021	10565533001	750525	IS6	SWSD0099-061521	SWSD0085
SWSD0086-061021	10565533002	750525	IS5	SWSD0099-061521	SWSD0086
SWSD0087-061021	10565533003	750525	IS4	SWSD0099-061521	SWSD0087
SWSD0088-061021	10565533004	750525	IS3	SWSD0099-061521	SWSD0088
SWSD0089-061021	10565533005	750525	IS2	SWSD0099-061521	SWSD0089
SWSD0090-061021	10565533006	750525	IS1	SWSD0099-061521	SWSD0090
SWSD0091-061021	10565533007	750525	IS1	SWSD0099-061521	SWSD0091
SWSD0092-061021	10565533008	750525	IS6	SWSD0099-061521	SWSD0092
SWSD0093-061021	10565533009	750525	IS5	SWSD0099-061521	SWSD0093
SWSD0094-061021	10565533010	750525	IS4	SWSD0099-061521	SWSD0094
SWSD0095-061021	10565533011	750525	IS3	SWSD0099-061521	SWSD0095
SWSD0096-061021	10565533012	750525	IS2	SWSD0099-061521	SWSD0096
SWSD0097-061021	10565533013	750525	IS1-N	SWSD0099-061521	SWSD0097
SWSD0098-061021	10565533014	750525	IS1-D	SWSD0099-061521	SWSD0098
SWSD0099-061521	10565533015	750525	FB	SWSD0099-061521	SWSD0099
SWSD0100-061021	10565533016	750526	IS7	SWSD0099-061521	SWSD0100
SWSD0101-061021	10565533017	750525	IS6	SWSD0099-061521	SWSD0101
SWSD0102-061021	10565533018	750525	IS5	SWSD0108-061521	SWSD0102
SWSD0103-061021	10565533019	750525	IS4	SWSD0108-061521	SWSD0103
SWSD0104-061021	10565533020	750525	IS3	SWSD0108-061521	SWSD0104
SWSD0105-061021	10565533021	750525	IS2	SWSD0108-061521	SWSD0105
SWSD0106-061021	10565533022	750526	IS1-N	SWSD0108-061521	SWSD0106
SWSD0107-061021	10565533023	750526	IS1-D	SWSD0108-061521	SWSD0107
SWSD0108-061521	10565533024	750526	FB	SWSD0108-061521	SWSD0108
SWSD0109-061121	10565533025	750526	IS8	SWSD0108-061521	SWSD0109
SWSD0110-061121	10565533026	750526	IS7	SWSD0108-061521	SWSD0110
SWSD0111-061021	10565533027	750526	IS6	SWSD0108-061521	SWSD0111
SWSD0112-061021	10565533028	750526	IS5	SWSD0108-061521	SWSD0112
SWSD0113-061021	10565533029	750526	IS4	SWSD0108-061521	SWSD0113
SWSD0114-061021	10565533030	750526	IS3	SWSD0108-061521	SWSD0114
SWSD0115-061021	10565533031	750526	IS2	SWSD0108-061521	SWSD0115
SWSD0116-061021	10565533032	750526	IS1	SWSD0108-061521	SWSD0116
SWSD0118-061021	10565533034	750526	AS	SWSD0108-061521	SWSD0118
SWSD0118-061021	10565533034	750526	AS	SWSD0108-061521	SWSD0118

LABORATORY VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	6/10/2021, 6/11/2021, 6/15/2021	6/24/2021, 6/28/2021	No
Total Mercury	Aqueous	EPA 245.1	6/10/2021, 6/11/2021, 6/15/2021	6/24/2021, 6/28/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565533
Matrix:	Aqueous	**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	6/10/2021, 6/11/2021, 6/15/2021	**Analysis Date(s):**	6/30/2021, 7/02/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWSD0085-061021	10565533001	751802	IS6	SWSD0099-061521	SWSD0085
SWSD0086-061021	10565533002	751802	IS5	SWSD0099-061521	SWSD0086
SWSD0087-061021	10565533003	751802	IS4	SWSD0099-061521	SWSD0087
SWSD0088-061021	10565533004	751802	IS3	SWSD0099-061521	SWSD0088
SWSD0089-061021	10565533005	751802	IS2	SWSD0099-061521	SWSD0089
SWSD0090-061021	10565533006	751802	IS1	SWSD0099-061521	SWSD0090
SWSD0091-061021	10565533007	751802	IS1	SWSD0099-061521	SWSD0091
SWSD0092-061021	10565533008	751802	IS6	SWSD0099-061521	SWSD0092
SWSD0093-061021	10565533009	751802	IS5	SWSD0099-061521	SWSD0093
SWSD0094-061021	10565533010	751802	IS4	SWSD0099-061521	SWSD0094
SWSD0095-061021	10565533011	751802	IS3	SWSD0099-061521	SWSD0095
SWSD0096-061021	10565533012	751802	IS2	SWSD0099-061521	SWSD0096
SWSD0097-061021	10565533013	751802	IS1-N	SWSD0099-061521	SWSD0097
SWSD0098-061021	10565533014	751802	IS1-D	SWSD0099-061521	SWSD0098
SWSD0099-061521	10565533015	751802	FB	SWSD0099-061521	SWSD0099
SWSD0100-061021	10565533016	751802	IS7	SWSD0099-061521	SWSD0100
SWSD0101-061021	10565533017	751802	IS6	SWSD0099-061521	SWSD0101
SWSD0102-061021	10565533018	751803	IS5	SWSD0108-061521	SWSD0102
SWSD0103-061021	10565533019	751803	IS4	SWSD0108-061521	SWSD0103
SWSD0104-061021	10565533020	751803	IS3	SWSD0108-061521	SWSD0104
SWSD0105-061021	10565533021	751803	IS2	SWSD0108-061521	SWSD0105
SWSD0106-061021	10565533022	751803	IS1-N	SWSD0108-061521	SWSD0106
SWSD0107-061021	10565533023	751803	IS1-D	SWSD0108-061521	SWSD0107
SWSD0108-061521	10565533024	751803	FB	SWSD0108-061521	SWSD0108
SWSD0109-061121	10565533025	751803	IS8	SWSD0108-061521	SWSD0109
SWSD0110-061121	10565533026	751803	IS7	SWSD0108-061521	SWSD0110
SWSD0111-061021	10565533027	751803	IS6	SWSD0108-061521	SWSD0111
SWSD0112-061021	10565533028	751803	IS5	SWSD0108-061521	SWSD0112
SWSD0113-061021	10565533029	751803	IS4	SWSD0108-061521	SWSD0113
SWSD0114-061021	10565533030	751803	IS3	SWSD0108-061521	SWSD0114

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0115-061021	10565533031	751803	IS2	SWSD0108-061521	SWSD0115
SWSD0116-061021	10565533032	751803	IS1	SWSD0108-061521	SWSD0116
SWSD0117-061021	Insufficient volume for dissolved metals analysis				
SWSD0118-061021	10565533034	751803	AS	SWSD0108-061521	SWSD0118
Total Metals					
SWSD0085-061021	10565533001	751805	IS6	SWSD0099-061521	SWSD0085
SWSD0086-061021	10565533002	751805	IS5	SWSD0099-061521	SWSD0086
SWSD0087-061021	10565533003	751805	IS4	SWSD0099-061521	SWSD0087
SWSD0088-061021	10565533004	751805	IS3	SWSD0099-061521	SWSD0088
SWSD0089-061021	10565533005	751805	IS2	SWSD0099-061521	SWSD0089
SWSD0090-061021	10565533006	751805	IS1	SWSD0099-061521	SWSD0090
SWSD0091-061021	10565533007	751805	IS1	SWSD0099-061521	SWSD0091
SWSD0092-061021	10565533008	751805	IS6	SWSD0099-061521	SWSD0092
SWSD0093-061021	10565533009	751805	IS5	SWSD0099-061521	SWSD0093
SWSD0094-061021	10565533010	751805	IS4	SWSD0099-061521	SWSD0094
SWSD0095-061021	10565533011	751805	IS3	SWSD0099-061521	SWSD0095
SWSD0096-061021	10565533012	751805	IS2	SWSD0099-061521	SWSD0096
SWSD0097-061021	10565533013	751805	IS1-N	SWSD0099-061521	SWSD0097
SWSD0098-061021	10565533014	751805	IS1-D	SWSD0099-061521	SWSD0098
SWSD0099-061521	10565533015	751805	FB	SWSD0099-061521	SWSD0099
SWSD0100-061021	10565533016	751805	IS7	SWSD0099-061521	SWSD0100
SWSD0101-061021	10565533017	751805	IS6	SWSD0099-061521	SWSD0101
SWSD0102-061021	10565533018	751806	IS5	SWSD0108-061521	SWSD0102
SWSD0103-061021	10565533019	751806	IS4	SWSD0108-061521	SWSD0103
SWSD0104-061021	10565533020	751806	IS3	SWSD0108-061521	SWSD0104
SWSD0105-061021	10565533021	751806	IS2	SWSD0108-061521	SWSD0105
SWSD0106-061021	10565533022	751806	IS1-N	SWSD0108-061521	SWSD0106
SWSD0107-061021	10565533023	751806	IS1-D	SWSD0108-061521	SWSD0107
SWSD0108-061521	10565533024	751806	FB	SWSD0108-061521	SWSD0108
SWSD0109-061121	10565533025	751806	IS8	SWSD0108-061521	SWSD0109
SWSD0110-061121	10565533026	751806	IS7	SWSD0108-061521	SWSD0110
SWSD0111-061021	10565533027	751806	IS6	SWSD0108-061521	SWSD0111
SWSD0112-061021	10565533028	751806	IS5	SWSD0108-061521	SWSD0112
SWSD0113-061021	10565533029	751806	IS4	SWSD0108-061521	SWSD0113
SWSD0114-061021	10565533030	751806	IS3	SWSD0108-061521	SWSD0114
SWSD0115-061021	10565533031	751806	IS2	SWSD0108-061521	SWSD0115
SWSD0116-061021	10565533032	751806	IS1	SWSD0108-061521	SWSD0116
SWSD0117-061021	10565533033	751806	AS	SWSD0108-061521	SWSD0117
SWSD0118-061021	10565533034	751806	AS	SWSD0108-061521	SWSD0118
1. Holding Times					
Analyte	**Matrix**	**Method**	**Collection Date**	**Analysis Date**	**Affected data flagged**

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	6/10/2021, 6/11/2021, 6/15/2021	6/30/2021, 7/02/2021	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	6/10/2021, 6/11/2021, 6/15/2021	6/30/2021, 7/02/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC Batch 751805** , MS 4008924 MSD 4008925 FeTR recoveries > 130%. Associated FeTR sample results SWSD0085-SWSD0089 were collected in the same drainage as the parent sample and qualified J+. The remaining samples in this QC batch had similar FeTR concentrations as the parent sample, but TSS results were considerably different. Based on the dissimilar TSS results, the remaining samples were judged to be of a dissimilar matrix and were not qualified.*

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565533
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	6/10/2021, 6/11/2021, 6/15/2021	**Analysis Date(s):**	6/17/2021, 6/18/2021, 6/22/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0085-061021	10565533001	749947	IS6	SWSD0099-061521	SWSD0085
SWSD0086-061021	10565533002	749947	IS5	SWSD0099-061521	SWSD0086
SWSD0087-061021	10565533003	749947	IS4	SWSD0099-061521	SWSD0087
SWSD0088-061021	10565533004	749947	IS3	SWSD0099-061521	SWSD0088
SWSD0089-061021	10565533005	749947	IS2	SWSD0099-061521	SWSD0089
SWSD0090-061021	10565533006	749947	IS1	SWSD0099-061521	SWSD0090
SWSD0091-061021	10565533007	749947	IS1	SWSD0099-061521	SWSD0091
SWSD0092-061021	10565533008	749947	IS6	SWSD0099-061521	SWSD0092
SWSD0093-061021	10565533009	749947	IS5	SWSD0099-061521	SWSD0093
SWSD0094-061021	10565533010	749947	IS4	SWSD0099-061521	SWSD0094
SWSD0095-061021	10565533011	749947	IS3	SWSD0099-061521	SWSD0095
SWSD0096-061021	10565533012	749947	IS2	SWSD0099-061521	SWSD0096
SWSD0097-061021	10565533013	749947	IS1-N	SWSD0099-061521	SWSD0097
SWSD0098-061021	10565533014	749947	IS1-D	SWSD0099-061521	SWSD0098
SWSD0099-061521	10565533015	750938	FB	SWSD0099-061521	SWSD0099
SWSD0100-061021	10565533016	749947	IS7	SWSD0099-061521	SWSD0100
SWSD0101-061021	10565533017	749947	IS6	SWSD0099-061521	SWSD0101
SWSD0102-061021	10565533018	749947	IS5	SWSD0108-061521	SWSD0102
SWSD0103-061021	10565533019	749947	IS4	SWSD0108-061521	SWSD0103
SWSD0104-061021	10565533020	749947	IS3	SWSD0108-061521	SWSD0104
SWSD0105-061021	10565533021	749947	IS2	SWSD0108-061521	SWSD0105
SWSD0106-061021	10565533022	749948	IS1-N	SWSD0108-061521	SWSD0106
SWSD0107-061021	10565533023	749948	IS1-D	SWSD0108-061521	SWSD0107
SWSD0108-061521	10565533024	750938	FB	SWSD0108-061521	SWSD0108
SWSD0109-061121	10565533025	750248	IS8	SWSD0108-061521	SWSD0109
SWSD0110-061121	10565533026	750249	IS7	SWSD0108-061521	SWSD0110
SWSD0111-061021	10565533027	749949	IS6	SWSD0108-061521	SWSD0111
SWSD0112-061021	10565533028	749949	IS5	SWSD0108-061521	SWSD0112
SWSD0113-061021	10565533029	749949	IS4	SWSD0108-061521	SWSD0113

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

SWSD0114-061021	10565533030	749949	IS3	SWSD0108-061521	SWSD0114
SWSD0115-061021	10565533031	749949	IS2	SWSD0108-061521	SWSD0115
SWSD0116-061021	10565533032	749949	IS1	SWSD0108-061521	SWSD0116
SWSD0117-061021	Insufficient volume for TSS analysis				
SWSD0118-061021	10565533034	749949	AS	SWSD0108-061521	SWSD0118

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	6/10/2021, 6/11/2021, 6/15/2021	6/17/2021, 6/18/2021, 6/22/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y_X_ N___

Describe corrective actions taken because of LDS problems.

QC Batch 749948, *Laboratory Duplicate 3999847 RPD > 10%, and both parent and duplicate sample results ≥ 5X RL. Associated TSS sample results SWSD0106 and SWSD0107 were ≥ MDL and qualified J.*

QC Batch 750248, *Laboratory Duplicate 4001561 RPD > 10%. Both the parent and duplicate results were <5X the RL and difference between the two was < the RL; thus, no associated TSS results were qualified.*

QC Batch 750249, *Laboratory Duplicate 4001564 RPD > 10%. The parent sample result was < 5X the RL, while the duplicate result was slightly > 5X the RL. However, the absolute difference between parent and duplicate results was < RL; thus, no associated TSS results were qualified.*

QC Batch 750938, *Laboratory Duplicate 4005121 RPD > 10%. Parent sample 10565454001 is not project associated so sample collection method and reliability of the result cannot be determined. Therefore, no associated TSS results were qualified.*

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565533
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	6/10/2021, 6/11/2021, 6/15/2021	**Analysis Date(s):**	6/25/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0085-061021	10565533001	752067	IS6	SWSD0099-061521	SWSD0085
SWSD0086-061021	10565533002	752067	IS5	SWSD0099-061521	SWSD0086
SWSD0087-061021	10565533003	752067	IS4	SWSD0099-061521	SWSD0087
SWSD0088-061021	10565533004	752067	IS3	SWSD0099-061521	SWSD0088
SWSD0089-061021	10565533005	752067	IS2	SWSD0099-061521	SWSD0089
SWSD0090-061021	10565533006	752067	IS1	SWSD0099-061521	SWSD0090
SWSD0091-061021	10565533007	752067	IS1	SWSD0099-061521	SWSD0091
SWSD0092-061021	10565533008	752067	IS6	SWSD0099-061521	SWSD0092
SWSD0093-061021	10565533009	752067	IS5	SWSD0099-061521	SWSD0093
SWSD0094-061021	10565533010	752067	IS4	SWSD0099-061521	SWSD0094
SWSD0095-061021	10565533011	752067	IS3	SWSD0099-061521	SWSD0095
SWSD0096-061021	10565533012	752067	IS2	SWSD0099-061521	SWSD0096
SWSD0097-061021	10565533013	752067	IS1-N	SWSD0099-061521	SWSD0097
SWSD0098-061021	10565533014	752067	IS1-D	SWSD0099-061521	SWSD0098
SWSD0099-061521	10565533015	752067	FB	SWSD0099-061521	SWSD0099
SWSD0100-061021	10565533016	752067	IS7	SWSD0099-061521	SWSD0100
SWSD0101-061021	10565533017	752067	IS6	SWSD0099-061521	SWSD0101
SWSD0102-061021	10565533018	752067	IS5	SWSD0108-061521	SWSD0102
SWSD0103-061021	10565533019	752067	IS4	SWSD0108-061521	SWSD0103
SWSD0104-061021	10565533020	752067	IS3	SWSD0108-061521	SWSD0104
SWSD0105-061021	10565533021	752069	IS2	SWSD0108-061521	SWSD0105
SWSD0106-061021	10565533022	752069	IS1-N	SWSD0108-061521	SWSD0106
SWSD0107-061021	10565533023	752069	IS1-D	SWSD0108-061521	SWSD0107
SWSD0108-061521	10565533024	752069	FB	SWSD0108-061521	SWSD0108
SWSD0109-061121	10565533025	752069	IS8	SWSD0108-061521	SWSD0109
SWSD0110-061121	10565533026	752069	IS7	SWSD0108-061521	SWSD0110
SWSD0111-061021	10565533027	752069	IS6	SWSD0108-061521	SWSD0111
SWSD0112-061021	10565533028	752069	IS5	SWSD0108-061521	SWSD0112
SWSD0113-061021	10565533029	752069	IS4	SWSD0108-061521	SWSD0113

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWSD0114-061021	10565533030	752069	IS3	SWSD0108-061521	SWSD0114
SWSD0115-061021	10565533031	752069	IS2	SWSD0108-061521	SWSD0115
SWSD0116-061021	10565533032	752069	IS1	SWSD0108-061521	SWSD0116
SWSD0117-061021	Insufficient volume for sulfate analysis				
SWSD0118-061021	10565533034	752069	AS	SWSD0108-061521	SWSD0118

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	6/10/2021, 6/11/2021, 6/15/2021	6/25/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were the LCS/LCSD within control window of 80-120% recovery? Y_X_ N___

Was the LCS/LCSD ≤ 20% relative percent difference (RPD)? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 752067**, MS 4010673 MSD 4010674 recoveries < 80%. Sulfate results for the entire QC batch were similar, but TSS results were not similar for all of these samples. Samples SWSD0100-SWSD0104 were collected from the same drainage as the parent sample, and samples SWSD0092-SWSD0098 were collected from a tributary to this drainage. Based on dissimilar TSS results, only sulfate results for SWSD0092-SWSD0098 and SWSD0100-SWSD0104 were qualified. These sulfate results were > the MDL and qualified J-.*

***QC Batch 752069**, MS 4010684 recovery < 80%. Parent sample 10565970001 was not project associated so sample collection method and reliability of the result cannot be determined. Thus, no associated SO4 results were qualified.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10565533
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	6/10/2021, 6/11/2021, 6/15/2021		
Data Validator:	Nadia Reed	**Validation Date:**	7/23/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0085-061021	10565533001	IS6	SWSD0099-061521	SWSD0085
SWSD0086-061021	10565533002	IS5	SWSD0099-061521	SWSD0086
SWSD0087-061021	10565533003	IS4	SWSD0099-061521	SWSD0087
SWSD0088-061021	10565533004	IS3	SWSD0099-061521	SWSD0088
SWSD0089-061021	10565533005	IS2	SWSD0099-061521	SWSD0089
SWSD0090-061021	10565533006	IS1	SWSD0099-061521	SWSD0090
SWSD0091-061021	10565533007	IS1	SWSD0099-061521	SWSD0091
SWSD0092-061021	10565533008	IS6	SWSD0099-061521	SWSD0092
SWSD0093-061021	10565533009	IS5	SWSD0099-061521	SWSD0093
SWSD0094-061021	10565533010	IS4	SWSD0099-061521	SWSD0094
SWSD0095-061021	10565533011	IS3	SWSD0099-061521	SWSD0095
SWSD0096-061021	10565533012	IS2	SWSD0099-061521	SWSD0096
SWSD0097-061021	10565533013	IS1-N	SWSD0099-061521	SWSD0097
SWSD0098-061021	10565533014	IS1-D	SWSD0099-061521	SWSD0098
SWSD0099-061521	10565533015	FB	SWSD0099-061521	SWSD0099
SWSD0100-061021	10565533016	IS7	SWSD0099-061521	SWSD0100
SWSD0101-061021	10565533017	IS6	SWSD0099-061521	SWSD0101
SWSD0102-061021	10565533018	IS5	SWSD0108-061521	SWSD0102
SWSD0103-061021	10565533019	IS4	SWSD0108-061521	SWSD0103
SWSD0104-061021	10565533020	IS3	SWSD0108-061521	SWSD0104
SWSD0105-061021	10565533021	IS2	SWSD0108-061521	SWSD0105
SWSD0106-061021	10565533022	IS1-N	SWSD0108-061521	SWSD0106
SWSD0107-061021	10565533023	IS1-D	SWSD0108-061521	SWSD0107
SWSD0108-061521	10565533024	FB	SWSD0108-061521	SWSD0108
SWSD0109-061121	10565533025	IS8	SWSD0108-061521	SWSD0109
SWSD0110-061121	10565533026	IS7	SWSD0108-061521	SWSD0110
SWSD0111-061021	10565533027	IS6	SWSD0108-061521	SWSD0111

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWSD0112-061021	10565533028	IS5	SWSD0108-061521	SWSD0112
SWSD0113-061021	10565533029	IS4	SWSD0108-061521	SWSD0113
SWSD0114-061021	10565533030	IS3	SWSD0108-061521	SWSD0114
SWSD0115-061021	10565533031	IS2	SWSD0108-061521	SWSD0115
SWSD0116-061021	10565533032	IS1	SWSD0108-061521	SWSD0116
SWSD0118-061021	10565533034	AS	SWSD0108-061521	SWSD0118

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	6/10/2021, 6/11/2021, 6/15/2021	6/24/2021, 6/28/2021
Total Mercury	Aqueous	EPA 245.1	6/10/2021, 6/11/2021, 6/15/2021	6/24/2021, 6/28/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	6/10/2021, 6/11/2021, 6/15/2021	6/30/2021, 7/02/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	6/10/2021, 6/11/2021, 6/15/2021	6/30/2021, 7/02/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	6/10/2021, 6/11/2021, 6/15/2021	6/17/2021, 6/18/2021, 6/22/2021
Sulfate (SO4)	Aqueous	ASTM D516	6/10/2021, 6/11/2021, 6/15/2021	6/25/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FB problems? Y___ N_X_

FB SWSD0099 *PbTR was detected at a concentration < 1.5X MDL and was not further assessed per TREC data validation guidelines.*

FB SWSD0108 *PbTR was detected at a concentration > 1.5X MDL. Associated PbTR sample results were > 10X FB value thus, were not qualified.*

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP? Y_X_ N___

Were any data qualified because of FD results? Y___ N_X_

Additional Comments

DATA VALIDATION SUMMARY FOR SDG 10568970

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568970
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	7/1/2021, 7/7/2021	**Analysis Date(s):**	7/8/2021, 7/13/2021, 7/15/2021, 7/16/2021, 7/19/2021, 7/20/2021, 7/21/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/27/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	7/1/2021, 7/7/2021	7/21/2021
Total Mercury	Aqueous	EPA 245.1	7/1/2021, 7/7/2021	7/21/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	7/1/2021, 7/7/2021	7/15/2021, 7/16/21, 7/20/21
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	7/1/2021, 7/7/2021	7/16/2021, 7/19/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	7/1/2021, 7/7/2021	7/8/2021, 7/13/2021
Sulfate (SO4)	Aqueous	ASTM D516	7/1/2021, 7/7/2021	7/19/2021, 7/21/2021

Were Level A field documentation and QA/QC practices met for this data set? Y_X_ N___

Were Level B field documentation and QA/QC practices met for this data set? Y__X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	407	343	275	68	0
Percentage		84%	80%	20%	0%

Analyses of this sample set resulted in 343 natural data points. Of these natural data points, 275 (80%) had no quality control deficiencies and are defined as enforcement quality while, 68 (20%) data points had quality control deficiencies and are defined as screening quality. Of the 68 screening quality data points; 7 were coded "MS" due to lab accuracy criteria not being met, 44 were coded "FD" due to field precision criteria not being met, and 17 were coded "FB" due to field accuracy criteria not being met. One sample had sufficient volume for only total mercury and total metals analysis; thus, completeness for this data set is 98%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568970
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	7/1/2021, 7/7/2021	**Analysis Date(s):**	7/21/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0119-070121	10568970001	755323	IS5	SWSD0132-070721	SWSD0119
SWSD0120-070121	10568970002	755323	IS4	SWSD0132-070721	SWSD0120
SWSD0121-070121	10568970003	755323	IS3	SWSD0132-070721	SWSD0121
SWSD0122-070121	10568970004	755323	IS2	SWSD0132-070721	SWSD0122
SWSD0123-070121	10568970005	755323	IS1	SWSD0132-070721	SWSD0123
SWSD0124-070121	10568970006	755323	IS1	SWSD0132-070721	SWSD0124
SWSD0125-070121	10568970007	755323	IS6	SWSD0132-070721	SWSD0125
SWSD0126-070121	10568970008	755323	IS5	SWSD0132-070721	SWSD0126
SWSD0127-070121	10568970009	755323	IS4	SWSD0132-070721	SWSD0127
SWSD0128-070121	10568970010	755323	IS3	SWSD0132-070721	SWSD0128
SWSD0129-070121	10568970011	755323	IS2	SWSD0132-070721	SWSD0129
SWSD0130-070121	10568970012	755323	IS1-N	SWSD0132-070721	SWSD0130
SWSD0131-070121	10568970013	755323	IS1-D	SWSD0132-070721	SWSD0131
SWSD0132-070721	10568970014	755323	FB	SWSD0132-070721	SWSD0132
SWSD0133-070121	10568970015	755324	IS8	SWSD0142-070721	SWSD0133
SWSD0134-070121	10568970016	755324	IS7	SWSD0142-070721	SWSD0134
SWSD0135-070121	10568970017	755324	IS6	SWSD0142-070721	SWSD0135
SWSD0136-070121	10568970018	755324	IS5	SWSD0142-070721	SWSD0136
SWSD0137-070121	10568970019	755324	IS4	SWSD0142-070721	SWSD0137
SWSD0138-070121	10568970020	755324	IS3	SWSD0142-070721	SWSD0138

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0139-070121	10568970021	755324	IS2	SWSD0142-070721	SWSD0139
SWSD0140-070121	10568970022	755324	IS1-N	SWSD0142-070721	SWSD0140
SWSD0141-070121	10568970023	755324	IS1-D	SWSD0142-070721	SWSD0141
SWSD0142-070721	10568970024	755324	FB	SWSD0142-070721	SWSD0142
SWSD0143-070121	10568970025	755324	AS	SWSD0142-070721	SWSD0143
SWSD0144-070121	inadequate volume for dissolved Hg analysis				
Total Mercury					
SWSD0119-070121	10568970001	755326	IS5	SWSD0132-070721	SWSD0119
SWSD0120-070121	10568970002	755326	IS4	SWSD0132-070721	SWSD0120
SWSD0121-070121	10568970003	755326	IS3	SWSD0132-070721	SWSD0121
SWSD0122-070121	10568970004	755326	IS2	SWSD0132-070721	SWSD0122
SWSD0123-070121	10568970005	755326	IS1	SWSD0132-070721	SWSD0123
SWSD0124-070121	10568970006	755326	IS1	SWSD0132-070721	SWSD0124
SWSD0125-070121	10568970007	755326	IS6	SWSD0132-070721	SWSD0125
SWSD0126-070121	10568970008	755326	IS5	SWSD0132-070721	SWSD0126
SWSD0127-070121	10568970009	755326	IS4	SWSD0132-070721	SWSD0127
SWSD0128-070121	10568970010	755326	IS3	SWSD0132-070721	SWSD0128
SWSD0129-070121	10568970011	755326	IS2	SWSD0132-070721	SWSD0129
SWSD0130-070121	10568970012	755326	IS1-N	SWSD0132-070721	SWSD0130
SWSD0131-070121	10568970013	755326	IS1-D	SWSD0132-070721	SWSD0131
SWSD0132-070721	10568970014	755326	FB	SWSD0132-070721	SWSD0132
SWSD0133-070121	10568970015	755327	IS8	SWSD0142-070721	SWSD0133
SWSD0134-070121	10568970016	755327	IS7	SWSD0142-070721	SWSD0134
SWSD0135-070121	10568970017	755327	IS6	SWSD0142-070721	SWSD0135
SWSD0136-070121	10568970018	755327	IS5	SWSD0142-070721	SWSD0136
SWSD0137-070121	10568970019	755327	IS4	SWSD0142-070721	SWSD0137
SWSD0138-070121	10568970020	755327	IS3	SWSD0142-070721	SWSD0138
SWSD0139-070121	10568970021	755327	IS2	SWSD0142-070721	SWSD0139
SWSD0140-070121	10568970022	755327	IS1-N	SWSD0142-070721	SWSD0140
SWSD0141-070121	10568970023	755327	IS1-D	SWSD0142-070721	SWSD0141
SWSD0142-070721	10568970024	755327	FB	SWSD0142-070721	SWSD0142
SWSD0143-070121	10568970025	755327	AS	SWSD0142-070721	SWSD0143
SWSD0144-070121	10568970026	755327	AS	SWSD0142-070721	SWSD0144

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	7/1/2021, 7/7/2021	7/21/2021	No
Total Mercury	Aqueous	EPA 245.1	7/1/2021, 7/7/2021	7/21/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

***QC Batch 755326** , MS 4027708 MSD 4027709 recoveries < 70%. Associated HgTR sample results SWSD0119-SWSD0123 were collected from the same drainage as the parent sample (SWSD0123) for the MS, thus of a similar matrix to the parent sample. HgTR results in these samples were > the MDL and qualified J-. The remaining samples in this QC batch were were collected from different drainages and judged to be of a dissimilar matrix. Therefore, HgTR results for the remaining samples were not qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)			
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)			
Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568970
Matrix:	Aqueous	**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	7/1/2021, 7/7/2021	**Analysis Date(s):**	7/15/2021, 7/16/21, 7/20/21, 7/16/2021,
Data Validator:	Nadia Reed	**Validation Date:**	7/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWSD0119-070121	10568970001	755294	IS5	SWSD0132-070721	SWSD0119
SWSD0120-070121	10568970002	755294	IS4	SWSD0132-070721	SWSD0120
SWSD0121-070121	10568970003	755294	IS3	SWSD0132-070721	SWSD0121
SWSD0122-070121	10568970004	755294	IS2	SWSD0132-070721	SWSD0122
SWSD0123-070121	10568970005	755294	IS1	SWSD0132-070721	SWSD0123
SWSD0124-070121	10568970006	755294	IS1	SWSD0132-070721	SWSD0124
SWSD0125-070121	10568970007	755294	IS6	SWSD0132-070721	SWSD0125
SWSD0126-070121	10568970008	755294	IS5	SWSD0132-070721	SWSD0126
SWSD0127-070121	10568970009	755294	IS4	SWSD0132-070721	SWSD0127
SWSD0128-070121	10568970010	755294	IS3	SWSD0132-070721	SWSD0128
SWSD0129-070121	10568970011	755294	IS2	SWSD0132-070721	SWSD0129
SWSD0130-070121	10568970012	755294	IS1-N	SWSD0132-070721	SWSD0130
SWSD0131-070121	10568970013	755294	IS1-D	SWSD0132-070721	SWSD0131
SWSD0132-070721	10568970014	755294	FB	SWSD0132-070721	SWSD0132
SWSD0133-070121	10568970015	755295	IS8	SWSD0142-070721	SWSD0133
SWSD0134-070121	10568970016	755295	IS7	SWSD0142-070721	SWSD0134
SWSD0135-070121	10568970017	755295	IS6	SWSD0142-070721	SWSD0135
SWSD0136-070121	10568970018	755295	IS5	SWSD0142-070721	SWSD0136
SWSD0137-070121	10568970019	755295	IS4	SWSD0142-070721	SWSD0137
SWSD0138-070121	10568970020	755295	IS3	SWSD0142-070721	SWSD0138
SWSD0139-070121	10568970021	755295	IS2	SWSD0142-070721	SWSD0139

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0140-070121	10568970022	755295	IS1-N	SWSD0142-070721	SWSD0140
SWSD0141-070121	10568970023	755295	IS1-D	SWSD0142-070721	SWSD0141
SWSD0142-070721	10568970024	755295	FB	SWSD0142-070721	SWSD0142
SWSD0143-070121	10568970025	755295	AS	SWSD0142-070721	SWSD0143
SWSD0144-070121	inadequate volume for dissolved metals analysis				
Total Metals					
SWSD0119-070121	10568970001	755299	IS5	SWSD0132-070721	SWSD0119
SWSD0120-070121	10568970002	755299	IS4	SWSD0132-070721	SWSD0120
SWSD0121-070121	10568970003	755299	IS3	SWSD0132-070721	SWSD0121
SWSD0122-070121	10568970004	755299	IS2	SWSD0132-070721	SWSD0122
SWSD0123-070121	10568970005	755299	IS1	SWSD0132-070721	SWSD0123
SWSD0124-070121	10568970006	755299	IS1	SWSD0132-070721	SWSD0124
SWSD0125-070121	10568970007	755299	IS6	SWSD0132-070721	SWSD0125
SWSD0126-070121	10568970008	755299	IS5	SWSD0132-070721	SWSD0126
SWSD0127-070121	10568970009	755299	IS4	SWSD0132-070721	SWSD0127
SWSD0128-070121	10568970010	755299	IS3	SWSD0132-070721	SWSD0128
SWSD0129-070121	10568970011	755299	IS2	SWSD0132-070721	SWSD0129
SWSD0130-070121	10568970012	755299	IS1-N	SWSD0132-070721	SWSD0130
SWSD0131-070121	10568970013	755299	IS1-D	SWSD0132-070721	SWSD0131
SWSD0132-070721	10568970014	755299	FB	SWSD0132-070721	SWSD0132
SWSD0133-070121	10568970015	755300	IS8	SWSD0142-070721	SWSD0133
SWSD0134-070121	10568970016	755300	IS7	SWSD0142-070721	SWSD0134
SWSD0135-070121	10568970017	755300	IS6	SWSD0142-070721	SWSD0135
SWSD0136-070121	10568970018	755300	IS5	SWSD0142-070721	SWSD0136
SWSD0137-070121	10568970019	755300	IS4	SWSD0142-070721	SWSD0137
SWSD0138-070121	10568970020	755300	IS3	SWSD0142-070721	SWSD0138
SWSD0139-070121	10568970021	755300	IS2	SWSD0142-070721	SWSD0139
SWSD0140-070121	10568970022	755300	IS1-N	SWSD0142-070721	SWSD0140
SWSD0141-070121	10568970023	755300	IS1-D	SWSD0142-070721	SWSD0141
SWSD0142-070721	10568970024	755300	FB	SWSD0142-070721	SWSD0142
SWSD0143-070121	10568970025	755300	AS	SWSD0142-070721	SWSD0143
SWSD0144-070121	10568970026	755300	AS	SWSD0142-070721	SWSD0144
1. Holding Times					

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	7/1/2021, 7/7/2021	7/15/2021, 7/16/21, 7/20/21	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	7/1/2021, 7/7/2021	7/16/2021, 7/19/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

***QC Batch 755299**, MS 4027597 MSD 4027598 CuTR, FeTR, PbTR, ZnTR recoveries < 70%. The parent sample concentrations were >4X spike concentrations for all parameters, therefore no associated results were qualified. MS 4027599 FeTR recovery > 130%. The parent sample concentration was >4X spike concetration, therefore no associated results were qualified.*

***QC Batch 755300**, MS 4027604 FeTR recovery > 130%. The parent sample concentration was >4X spike concentration, therefore no associated results were qualified.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568970
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	7/1/2021, 7/7/2021	**Analysis Date(s):**	7/8/2021, 7/13/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0119-070121	10568970001	754875	IS5	SWSD0132-070721	SWSD0119
SWSD0120-070121	10568970002	754875	IS4	SWSD0132-070721	SWSD0120
SWSD0121-070121	10568970003	754875	IS3	SWSD0132-070721	SWSD0121
SWSD0122-070121	10568970004	754875	IS2	SWSD0132-070721	SWSD0122
SWSD0123-070121	10568970005	754875	IS1	SWSD0132-070721	SWSD0123
SWSD0124-070121	10568970006	754875	IS1	SWSD0132-070721	SWSD0124
SWSD0125-070121	10568970007	754875	IS6	SWSD0132-070721	SWSD0125
SWSD0126-070121	10568970008	754875	IS5	SWSD0132-070721	SWSD0126
SWSD0127-070121	10568970009	754875	IS4	SWSD0132-070721	SWSD0127
SWSD0128-070121	10568970010	754875	IS3	SWSD0132-070721	SWSD0128
SWSD0129-070121	10568970011	754875	IS2	SWSD0132-070721	SWSD0129
SWSD0130-070121	10568970012	754875	IS1-N	SWSD0132-070721	SWSD0130
SWSD0131-070121	10568970013	754875	IS1-D	SWSD0132-070721	SWSD0131
SWSD0132-070721	10568970014	755892	FB	SWSD0132-070721	SWSD0132
SWSD0133-070121	10568970015	754875	IS8	SWSD0142-070721	SWSD0133
SWSD0134-070121	10568970016	754875	IS7	SWSD0142-070721	SWSD0134
SWSD0135-070121	10568970017	754875	IS6	SWSD0142-070721	SWSD0135
SWSD0136-070121	10568970018	754875	IS5	SWSD0142-070721	SWSD0136
SWSD0137-070121	10568970019	754875	IS4	SWSD0142-070721	SWSD0137
SWSD0138-070121	10568970020	754875	IS3	SWSD0142-070721	SWSD0138
SWSD0139-070121	10568970021	754875	IS2	SWSD0142-070721	SWSD0139

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

SWSD0140-070121	10568970022	754659	IS1-N	SWSD0142-070721	SWSD0140
SWSD0141-070121	10568970023	754659	IS1-D	SWSD0142-070721	SWSD0141
SWSD0142-070721	10568970024	755892	FB	SWSD0142-070721	SWSD0142
SWSD0143-070121	10568970025	754659	AS	SWSD0142-070721	SWSD0143
SWSD0144-070121	Inadequate volume for TSS analysis				

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	7/1/2021, 7/7/2021	7/8/2021, 7/13/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_X_ N___

Were any data flagged because of LDS problems? Y___ N_X_

Describe corrective actions taken because of LDS problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568970
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	7/1/2021, 7/7/2021	**Analysis Date(s):**	7/19/2021, 7/21/2021
Data Validator:	Nadia Reed	**Validation Date:**	7/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0119-070121	10568970001	757977	IS5	SWSD0132-070721	SWSD0119
SWSD0120-070121	10568970002	757977	IS4	SWSD0132-070721	SWSD0120
SWSD0121-070121	10568970003	757775	IS3	SWSD0132-070721	SWSD0121
SWSD0122-070121	10568970004	757977	IS2	SWSD0132-070721	SWSD0122
SWSD0123-070121	10568970005	757085	IS1	SWSD0132-070721	SWSD0123
SWSD0124-070121	10568970006	757977	IS1	SWSD0132-070721	SWSD0124
SWSD0125-070121	10568970007	757085	IS6	SWSD0132-070721	SWSD0125
SWSD0126-070121	10568970008	757775	IS5	SWSD0132-070721	SWSD0126
SWSD0127-070121	10568970009	757977	IS4	SWSD0132-070721	SWSD0127
SWSD0128-070121	10568970010	757085	IS3	SWSD0132-070721	SWSD0128
SWSD0129-070121	10568970011	757775	IS2	SWSD0132-070721	SWSD0129
SWSD0130-070121	10568970012	757775	IS1-N	SWSD0132-070721	SWSD0130
SWSD0131-070121	10568970013	757107	IS1-D	SWSD0132-070721	SWSD0131
SWSD0132-070721	10568970014	757107	FB	SWSD0132-070721	SWSD0132
SWSD0133-070121	10568970015	757107	IS8	SWSD0142-070721	SWSD0133
SWSD0134-070121	10568970016	757107	IS7	SWSD0142-070721	SWSD0134
SWSD0135-070121	10568970017	757107	IS6	SWSD0142-070721	SWSD0135
SWSD0136-070121	10568970018	757107	IS5	SWSD0142-070721	SWSD0136
SWSD0137-070121	10568970019	757107	IS4	SWSD0142-070721	SWSD0137
SWSD0138-070121	10568970020	757107	IS3	SWSD0142-070721	SWSD0138
SWSD0139-070121	10568970021	757107	IS2	SWSD0142-070721	SWSD0139

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWSD0140-070121	10568970022	757107	IS1-N	SWSD0142-070721	SWSD0140
SWSD0141-070121	10568970023	757107	IS1-D	SWSD0142-070721	SWSD0141
SWSD0142-070721	10568970024	757107	FB	SWSD0142-070721	SWSD0142
SWSD0143-070121	10568970025	757107	AS	SWSD0142-070721	SWSD0143
SWSD0144-070121	Inadequate volume for sulfate analysis				

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	7/1/2021, 7/7/2021	7/19/2021, 7/21/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 757085 *, SO4 was detected in MB 4037138 at a concentration >1.5X MDL. Associated sample results SWSD0123, SWSD0125, and SWSD0128 were >10X the MB value thus, no data were qualified.*

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were the LCS/LCSD within control window of 80-120% recovery? Y_X_ N___

Was the LCS/LCSD ≤ 20% relative percent difference (RPD)? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

***QC Batch 757085** , MS 4037141 MSD 4037142 SO4 recoveries < 80%. The parent sample (10568826001) was not project associated so matrix similarity could not be determined thus, no data were qualifed.*

***QC Batch 757107** , MS 4037228 recovery > 120%. The parent sample for this MS was collected from a different drainage from all other samples in this QC batch and judged to be of a differing matrix than the remaining samples. Thus the sulfate result in only the parent sample, SWSD0131, was qualified J+ for the high MS recovery.*

***QC Batch 757775** , MS 4040925 recovery > 120%. The parent sample (10568665033) was not project associated so matrix similarity could not be determined thus, no data were qualified. MS 4040927 MSD 4040928 recoveries > 120%. The parent sample (10568665037) was not project associated so matrix similarity could not be determined thus, no data were qualified.*

***QC Batch 757977** , MS 4042095 MSD 4042096 SO4 recoveries > 120%. The parent sample for this MS (SWSD0119) was collected from the same drainage as SWSD0120 and SWSD0122. SO4, TSS, and total metals concentrations in SWSD0122 were significantly higher than those in SWSD0119; thus, judged to be dissimilar to the parent sample. Samples SWSD0124 and SWSD0127 were collected from different drainages, thus judged to be of a differing matrix. Therefore, sulfate results in only SWSD0119 and SWSD0120 were qualified J+ for the high MS recovery.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10568970
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	7/1/2021, 7/7/2021		
Data Validator:	Nadia Reed	**Validation Date:**	7/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0119-070121	10568970001	IS5	SWSD0132-070721	SWSD0119
SWSD0120-070121	10568970002	IS4	SWSD0132-070721	SWSD0120
SWSD0121-070121	10568970003	IS3	SWSD0132-070721	SWSD0121
SWSD0122-070121	10568970004	IS2	SWSD0132-070721	SWSD0122
SWSD0123-070121	10568970005	IS1	SWSD0132-070721	SWSD0123
SWSD0124-070121	10568970006	IS1	SWSD0132-070721	SWSD0124
SWSD0125-070121	10568970007	IS6	SWSD0132-070721	SWSD0125
SWSD0126-070121	10568970008	IS5	SWSD0132-070721	SWSD0126
SWSD0127-070121	10568970009	IS4	SWSD0132-070721	SWSD0127
SWSD0128-070121	10568970010	IS3	SWSD0132-070721	SWSD0128
SWSD0129-070121	10568970011	IS2	SWSD0132-070721	SWSD0129
SWSD0130-070121	10568970012	IS1-N	SWSD0132-070721	SWSD0130
SWSD0131-070121	10568970013	IS1-D	SWSD0132-070721	SWSD0131
SWSD0132-070721	10568970014	FB	SWSD0132-070721	SWSD0132
SWSD0133-070121	10568970015	IS8	SWSD0142-070721	SWSD0133
SWSD0134-070121	10568970016	IS7	SWSD0142-070721	SWSD0134
SWSD0135-070121	10568970017	IS6	SWSD0142-070721	SWSD0135
SWSD0136-070121	10568970018	IS5	SWSD0142-070721	SWSD0136
SWSD0137-070121	10568970019	IS4	SWSD0142-070721	SWSD0137

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWSD0138-070121	10568970020	IS3	SWSD0142-070721	SWSD0138
SWSD0139-070121	10568970021	IS2	SWSD0142-070721	SWSD0139
SWSD0140-070121	10568970022	IS1-N	SWSD0142-070721	SWSD0140
SWSD0141-070121	10568970023	IS1-D	SWSD0142-070721	SWSD0141
SWSD0142-070721	10568970024	FB	SWSD0142-070721	SWSD0142
SWSD0143-070121	10568970025	AS	SWSD0142-070721	SWSD0143
SWSD0144-070121	10568970026	AS	SWSD0142-070721	SWSD0144

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	7/1/2021, 7/7/2021	7/21/2021
Total Mercury	Aqueous	EPA 245.1	7/1/2021, 7/7/2021	7/21/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	7/1/2021, 7/7/2021	7/15/2021, 7/16/21, 7/20/21
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	7/1/2021, 7/7/2021	7/16/2021, 7/19/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	7/1/2021, 7/7/2021	7/8/2021, 7/13/2021
Sulfate (SO4)	Aqueous	ASTM D516	7/1/2021, 7/7/2021	7/19/2021, 7/21/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

CdTR, FeDis, and ZnDis were detected in FB SWSD0132 at concentrations <1.5X MDL thus, were not further assessed per TREC data validation guidelines.

FeDis was detected in FB SWSD0142 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.

CuDis was detected in FB SWSD0132 at a concentration >1.5X MDL. Associated CuDis results in SWSD0119-SWSD0131 were > the RL but < 10X blank value and qualified J+.

PbDis was detected in FB SWSD0132 at a concentration >1.5X MDL. Associated PbDis results in samples SWSD0124, SWSD0125, and SWSD0128-SWSD0131 were > RL but ≤ 10X blank value and qualified J+. Associated PbDis sample results SWSD0119-SWSD0123, SWSD0126, and SWSD0127 were >10X the FB value and were not qualified.

PbTR was detected in FB SWSD0132 at a concentration >1.5X MDL. Associated PbTR sample results were > 10X FB value and were not qualified.

PbTR was detected in FB SWSD0142 at a concentration >1.5X MDL. Associated PbTR sample results were > 10X FB value and were not qualified.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Were results for FDs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Matrix similarity is considered when assessing field duplicate results, and generally samples collected within the same drainage are considered to be of a similar matrix.

***In field duplicate set SWSD0130/SWSD0131** , RPDs between primary and duplicate samples for CdTR, HgTR, PbTR, SO4, TSS, ZnTR results were > 20%. Both the primary and duplicate HgTR results were <5X the RL and the difference between the results was < the RL, so no HgTR results were qualified based on field precision. Both primary and duplicate CdTR, PbTR, SO4, TSS, and ZnTR results were >5X the respective RLs. This duplicate set was collected in the same drainage as samples SWSD0125-SWSD0131, thus only these samples were judged to have matrix similarity to the field duplicate sample set. CdTR, PbTR, SO4, and ZnTR results in SWSD0125-SWSD0131 were > the MDL and qualified J. The SO4 result for SWSD0131 was also qualified for a high MS recovery, thus received an overall J+ qualifier. Since TSS concentration is determined by filtration and is not associated with a chemical matrix, qualifications based on field precision is not limited to samples collected within the same drainage. Thus the TSS results for samples SWSD0119-SWSD0131, which were > MDL, were qualified J.*

***In field duplicate set SWSD0141/SWSD0142** , RPD between primary and duplicate SO4 results was > 20% and both the results were >5X the RL. Samples SWSD0133-SWSD0141 were collected in the same drainage as the duplicate set. SO4 results in SWSD0133-SWSD0141 were > the MDL and qualified J. Field blanks are not assessed for field precision since they are of a differing matrix.*

Additional Comments

DATA VALIDATION SUMMARY FOR SDG 10571347

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10571347
Matrix:	Aqueous	**Analysis:**	Total Mercury, Total Metals: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	07/20/2021, 07/22/2021	**Analysis Date(s):**	07/27/2021, 08/03/2021, 08/04/2021
Data Validator:	Nadia Reed	**Validation Date:**	9/2/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Total Mercury	Aqueous	EPA 245.1	07/20/2021, 07/22/2021	07/27/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	07/20/2021, 07/22/2021	08/03/2021, 08/04/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	35	21	20	1	0
Percentage		60%	95%	5%	0%

Analysis of this sample set resulted in 21 natural sample data points. Of these natural data points, 20 (95%) data points had no associated quality control deficiencies and are defined as enforcement quality, while one (5%) data point was qualified for field precision (coded FD) and assigned screening quality. All anticipated data was not collected. Sample volume was adequate for only total mercury and total metals analysis, resulting in 21 out of the anticipated 48 primary sample analyses completed; thus, completeness for this data set is 43.75%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10571347
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	07/20/2021, 07/22/2021	**Analysis Date(s):**	07/27/2021
Data Validator:	Nadia Reed	**Validation Date:**	9/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
All samples had inadequate volume for dissolved mercury analysis					
Total Mercury					
SWSD0145-072021	10571347001	758733	IS1-N	SWSD0147-072221	SWSD0145
SWSD0146-072021	10571347002	758733	IS1-D	SWSD0147-072221	SWSD0146
SWSD0147-072221	10571347003	758733	FB	SWSD0147-072221	SWSD0147
SWSD0148-072021	10571347004	758733	AS	SWSD0147-072221	SWSD0148
SWSD0149-072021	10571347005	758733	AS	SWSD0147-072221	SWSD0149

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Mercury	Aqueous	EPA 245.1	07/20/2021, 07/22/2021	07/27/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y_X_ N___
All samples had inadequate volume for dissolved mercury analysis.	

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10571347
Matrix:	Aqueous	**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	07/20/2021, 07/22/2021	**Analysis Date(s):**	08/03/2021, 08/04/2021
Data Validator:	Nadia Reed	**Validation Date:**	9/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
All samples had inadequate volume for dissolved metals analysis					
Total Metals					
SWSD0145-072021	10571347001	758725	IS1-N	SWSD0147-072221	SWSD0145
SWSD0146-072021	10571347002	758725	IS1-D	SWSD0147-072221	SWSD0146
SWSD0147-072221	10571347003	758725	FB	SWSD0147-072221	SWSD0147
SWSD0148-072021	10571347004	758725	AS	SWSD0147-072221	SWSD0148
SWSD0149-072021	10571347005	758725	AS	SWSD0147-072221	SWSD0149

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	07/20/2021, 07/22/2021	08/03/2021, 08/04/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of ICS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC Batch 758725** , MSD 4045963 PbTR and ZnTR recoveries <70%. No associated PbTR or ZnTR sample results were qualified because the parent sample concentrations were >4X the spike concentrations.*

Are there any additional analytical limitations that users should be aware of?	Y_X_ N___

All samples had inadequate volume for dissolved metals analysis.

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10571347
Matrix:	Aqueous	**Analysis:**	Total Mercury, Total Metals: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	07/20/2021, 07/22/2021		
Data Validator:	Nadia Reed	**Validation Date:**	9/2/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0145-072021	10571347001	IS1-N	SWSD0147-072221	SWSD0145
SWSD0146-072021	10571347002	IS1-D	SWSD0147-072221	SWSD0146
SWSD0147-072221	10571347003	FB	SWSD0147-072221	SWSD0147
SWSD0148-072021	10571347004	AS	SWSD0147-072221	SWSD0148
SWSD0149-072021	10571347005	AS	SWSD0147-072221	SWSD0149

Analyte	Matrix	Method	Collection Date	Analysis Date
Total Mercury	Aqueous	EPA 245.1	07/20/2021, 07/22/2021	07/27/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	07/20/2021, 07/22/2021	08/03/2021, 08/04/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FB problems? Y___ N_X_

*PbTR was detected in **FB SWSD0147** at a concentration >1.5X MDL. Associated PbTR sample results SWSD0145, SWSD0146, SWSD0149, and SWSD0149 were >10X blank value and were not qualified.*

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

In field duplicate set SWSD0145/SWSD0146, *FeTR primary and duplicate sample results RPD > 20%. Both the primary and the duplicate FeTR were >5X RL. Matrix similarity is considered when assessing field duplicates. The three primary samples in this SDG were collected from three different drainages, and the FeTR results for the three primary samples were not similar. Thus, FeTR results for only the primary and duplicate sample, SWSD0145 and SWSD0146, were qualified for field precision. Both results were ≥ MDL and qualified J.*

Additional Comments

This sample set had adequate volume for only total mercury and total metals analysis.

DATA VALIDATION SUMMARY FOR SDG 10573163

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10573163
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	8/1/2021, 8/3/2021	**Analysis Date(s):**	8/6/2021, 8/10/2021, 8/16/2021-8/21/2021
Data Validator:	Michele Bay	**Validation Date:**	9/27/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/1/2021, 8/3/2021	8/18/2021
Total Mercury	Aqueous	EPA 245.1	8/1/2021, 8/3/2021	8/18/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/1/2021, 8/3/2021	8/17/2021, 8/18/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/1/2021, 8/3/2021	8/16/2021-8/18/2021, 8/21/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/1/2021, 8/3/2021	8/6/2021, 8/10/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/1/2021, 8/3/2021	8/16/2021, 8/18/2021-8/20/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	773	677	639	38	0
Percentage		88%	94%	6%	0%

Analyses for this sample set resulted with 677 natural data points. Of these 639 (94%) had no quality control defieciencies and are defined as enforcement quality while, 38 (6%) had quality control deficiencies and are defined as screening quality. Of the 38 qualified data points 4 were coded "MS" due to laboratory accuracy criteria not being met, 6 were coded "RPD" due to laboratory precision criteria not being met, 15 were coded "FD" due to field precision criteria not being met, and 13 were coded "FD,RPD" due to both field and laboratory precision criteria not being met. Of the 688 anticipated natural sample data points, only 677 were collected thus, completeness for this data set is 98.4%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10573163
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	8/1/2021, 8/3/2021	**Analysis Date(s):**	8/18/2021
Data Validator:	Michele Bay	**Validation Date:**	9/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0150-080121	10573163001	762184	IS7	SWSD0158-080321	SWSD0150
SWSD0151-080121	10573163002	762184	IS6	SWSD0158-080321	SWSD0151
SWSD0152-080121	10573163003	762184	IS5	SWSD0158-080321	SWSD0152
SWSD0153-080121	10573163004	762184	IS4	SWSD0158-080321	SWSD0153
SWSD0154-080121	10573163005	762184	IS3	SWSD0158-080321	SWSD0154
SWSD0155-080121	10573163006	762184	IS2	SWSD0158-080321	SWSD0155
SWSD0156-080121	10573163007	762184	IS1-N	SWSD0158-080321	SWSD0156
SWSD0157-080121	10573163008	762184	IS1-D	SWSD0158-080321	SWSD0157
SWSD0158-080321	10573163009	762184	FB	SWSD0158-080321	SWSD0158
SWSD0159-080121	10573163010	762184	IS1	SWSD0158-080321	SWSD0159
SWSD0160-080121	10573163011	762184	IS3	SWSD0158-080321	SWSD0160
SWSD0161-080121	10573163012	762184	IS2	SWSD0158-080321	SWSD0161
SWSD0162-080121	10573163013	762184	IS1	SWSD0158-080321	SWSD0162
SWSD0163-080121	10573163014	762184	IS4	SWSD0158-080321	SWSD0163
SWSD0164-080121	10573163015	762184	IS3	SWSD0158-080321	SWSD0164
SWSD0165-080121	10573163016	762184	IS2	SWSD0158-080321	SWSD0165
SWSD0166-080121	10573163017	762184	IS1	SWSD0158-080321	SWSD0166
SWSD0167-080121	10573163018	762185	IS6	SWSD0174-080321	SWSD0167
SWSD0168-080121	10573163019	762185	IS5	SWSD0174-080321	SWSD0168
SWSD0169-080121	10573163020	762185	IS4	SWSD0174-080321	SWSD0169

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0170-080121	10573163021	762185	IS3	SWSD0174-080321	SWSD0170
SWSD0171-080121	10573163022	762185	IS2	SWSD0174-080321	SWSD0171
SWSD0172-080121	10573163023	762185	IS1-N	SWSD0174-080321	SWSD0172
SWSD0173-080121	10573163024	762185	IS1-D	SWSD0174-080321	SWSD0173
SWSD0174-080321	10573163025	762185	FB	SWSD0174-080321	SWSD0174
SWSD0175-080121	10573163026	762185	IS7	SWSD0174-080321	SWSD0175
SWSD0176-080121	10573163027	762185	IS6	SWSD0174-080321	SWSD0176
SWSD0177-080121	10573163028	762185	IS5	SWSD0174-080321	SWSD0177
SWSD0178-080121	10573163029	762185	IS4	SWSD0174-080321	SWSD0178
SWSD0179-080121	10573163030	762185	IS3	SWSD0174-080321	SWSD0179
SWSD0180-080121	10573163031	762185	IS2	SWSD0174-080321	SWSD0180
SWSD0181-080121	10573163032	762185	IS1	SWSD0174-080321	SWSD0181
SWSD0182-080121	10573163033	762185	IS8	SWSD0194-080321	SWSD0182
SWSD0183-080121	10573163034	762185	IS7	SWSD0194-080321	SWSD0183
SWSD0184-080121	10573163035	762187	IS6	SWSD0194-080321	SWSD0184
SWSD0185-080121	10573163036	762187	IS5	SWSD0194-080321	SWSD0185
SWSD0186-080121	10573163037	762187	IS4	SWSD0194-080321	SWSD0186
SWSD0187-080121	10573163038	762187	IS3	SWSD0194-080321	SWSD0187
SWSD0188-080121	10573163039	762187	IS2	SWSD0194-080321	SWSD0188
SWSD0189-080121	10573163040	762187	IS1	SWSD0194-080321	SWSD0189
SWSD0190-080121	10573163041	762187	IS3	SWSD0194-080321	SWSD0190
SWSD0191-080121	10573163042	762187	IS2	SWSD0194-080321	SWSD0191
SWSD0192-080121	10573163043	762187	IS1-N	SWSD0194-080321	SWSD0192
SWSD0193-080121	10573163044	762187	IS1-D	SWSD0194-080321	SWSD0193
SWSD0194-080321	10573163045	762187	FB	SWSD0194-080321	SWSD0194
SWSD0195-080121	10573163046	No analysis for HgDis performed for this sample			
SWSD0196-080121	10573163047	762187	AS	SWSD0194-080321	SWSD0196
SWSD0197-080121	10573163048	762187	AS	SWSD0194-080322	SWSD0197
SWSD0198-080121	10573163049	762187	AS	SWSD0194-080321	SWSD0198
Total Mercury					
SWSD0150-080121	10573163001	762188	IS7	SWSD0158-080321	SWSD0150
SWSD0151-080121	10573163002	762188	IS6	SWSD0158-080321	SWSD0151
SWSD0152-080121	10573163003	762188	IS5	SWSD0158-080321	SWSD0152

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0153-080121	10573163004	762188	IS4	SWSD0158-080321	SWSD0153
SWSD0154-080121	10573163005	762188	IS3	SWSD0158-080321	SWSD0154
SWSD0155-080121	10573163006	762188	IS2	SWSD0158-080321	SWSD0155
SWSD0156-080121	10573163007	762188	IS1-N	SWSD0158-080321	SWSD0156
SWSD0157-080121	10573163008	762188	IS1-D	SWSD0158-080321	SWSD0157
SWSD0158-080321	10573163009	762188	FB	SWSD0158-080321	SWSD0158
SWSD0159-080121	10573163010	762188	IS1	SWSD0158-080321	SWSD0159
SWSD0160-080121	10573163011	762188	IS3	SWSD0158-080321	SWSD0160
SWSD0161-080121	10573163012	762188	IS2	SWSD0158-080321	SWSD0161
SWSD0162-080121	10573163013	762188	IS1	SWSD0158-080321	SWSD0162
SWSD0163-080121	10573163014	762188	IS4	SWSD0158-080321	SWSD0163
SWSD0164-080121	10573163015	762188	IS3	SWSD0158-080321	SWSD0164
SWSD0165-080121	10573163016	762188	IS2	SWSD0158-080321	SWSD0165
SWSD0166-080121	10573163017	762188	IS1	SWSD0158-080321	SWSD0166
SWSD0167-080121	10573163018	762190	IS6	SWSD0174-080321	SWSD0167
SWSD0168-080121	10573163019	762190	IS5	SWSD0174-080321	SWSD0168
SWSD0169-080121	10573163020	762190	IS4	SWSD0174-080321	SWSD0169
SWSD0170-080121	10573163021	762190	IS3	SWSD0174-080321	SWSD0170
SWSD0171-080121	10573163022	762190	IS2	SWSD0174-080321	SWSD0171
SWSD0172-080121	10573163023	762190	IS1-N	SWSD0174-080321	SWSD0172
SWSD0173-080121	10573163024	762190	IS1-D	SWSD0174-080321	SWSD0173
SWSD0174-080321	10573163025	762190	FB	SWSD0174-080321	SWSD0174
SWSD0175-080121	10573163026	762190	IS7	SWSD0174-080321	SWSD0175
SWSD0176-080121	10573163027	762190	IS6	SWSD0174-080321	SWSD0176
SWSD0177-080121	10573163028	762190	IS5	SWSD0174-080321	SWSD0177
SWSD0178-080121	10573163029	762190	IS4	SWSD0174-080321	SWSD0178
SWSD0179-080121	10573163030	762190	IS3	SWSD0174-080321	SWSD0179
SWSD0180-080121	10573163031	762190	IS2	SWSD0174-080321	SWSD0180
SWSD0181-080121	10573163032	762190	IS1	SWSD0174-080321	SWSD0181
SWSD0182-080121	10573163033	762190	IS8	SWSD0194-080321	SWSD0182
SWSD0183-080121	10573163034	762190	IS7	SWSD0194-080321	SWSD0183
SWSD0184-080121	10573163035	762191	IS6	SWSD0194-080321	SWSD0184
SWSD0185-080121	10573163036	762191	IS5	SWSD0194-080321	SWSD0185

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0186-080121	10573163037	762191	IS4	SWSD0194-080321	SWSD0186
SWSD0187-080121	10573163038	762191	IS3	SWSD0194-080321	SWSD0187
SWSD0188-080121	10573163039	762191	IS2	SWSD0194-080321	SWSD0188
SWSD0189-080121	10573163040	762191	IS1	SWSD0194-080321	SWSD0189
SWSD0190-080121	10573163041	762191	IS3	SWSD0194-080321	SWSD0190
SWSD0191-080121	10573163042	762191	IS2	SWSD0194-080321	SWSD0191
SWSD0192-080121	10573163043	762191	IS1-N	SWSD0194-080321	SWSD0192
SWSD0193-080121	10573163044	762191	IS1-D	SWSD0194-080321	SWSD0193
SWSD0194-080321	10573163045	762191	FB	SWSD0194-080321	SWSD0194
SWSD0195-080121	10573163046	762191	AS	SWSD0194-080321	SWSD0195
SWSD0196-080121	10573163047	762191	AS	SWSD0194-080321	SWSD0196
SWSD0197-080121	10573163048	762191	AS	SWSD0194-080322	SWSD0197
SWSD0198-080121	10573163049	762191	AS	SWSD0194-080321	SWSD0198

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	8/1/2021, 8/3/2021	8/18/2021	No
Total Mercury	Aqueous	EPA 245.1	8/1/2021, 8/3/2021	8/18/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 762184 *, HgDis was detected in MB 4063730 at a concentration ≤1.5X the MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y___ N_X_

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y_X_ N___

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 762190**, MS 4063765 MSD 4063766 HgTR were >5X RL and the RPD>20%. Samples SWSD0168-SWSD0173 were collected from the same drainage as the parent sample for this MS/MSD, SWSD0167, and considered to be of a similar matrix. The remaining samples in this QC batch were collected from different drainages and considered dissimilar to the parent sample. Thus, HgTR results for SWSD0167-SWSD0173, which were > the MDL, were qualified J.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

HgDis analysis was not performed on sample SWSD0195 due to limited sample volume.

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10573163
Matrix:	Aqueous	**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	8/1/2021, 8/3/2021	**Analysis Date(s):**	8/16/2021-8/18/2021, 8/21/2021
Data Validator:	Michele Bay	**Validation Date:**	9/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWSD0150-080121	10573163001	761990	IS7	SWSD0158-080321	SWSD0150
SWSD0151-080121	10573163002	761990	IS6	SWSD0158-080321	SWSD0151
SWSD0152-080121	10573163003	761990	IS5	SWSD0158-080321	SWSD0152
SWSD0153-080121	10573163004	761990	IS4	SWSD0158-080321	SWSD0153
SWSD0154-080121	10573163005	761990	IS3	SWSD0158-080321	SWSD0154
SWSD0155-080121	10573163006	761990	IS2	SWSD0158-080321	SWSD0155
SWSD0156-080121	10573163007	761990	IS1-N	SWSD0158-080321	SWSD0156
SWSD0157-080121	10573163008	761990	IS1-D	SWSD0158-080321	SWSD0157
SWSD0158-080321	10573163009	761990	FB	SWSD0158-080321	SWSD0158
SWSD0159-080121	10573163010	761990	IS1	SWSD0158-080321	SWSD0159
SWSD0160-080121	10573163011	761990	IS3	SWSD0158-080321	SWSD0160
SWSD0161-080121	10573163012	761990	IS2	SWSD0158-080321	SWSD0161
SWSD0162-080121	10573163013	761990	IS1	SWSD0158-080321	SWSD0162
SWSD0163-080121	10573163014	761990	IS4	SWSD0158-080321	SWSD0163
SWSD0164-080121	10573163015	761990	IS3	SWSD0158-080321	SWSD0164
SWSD0165-080121	10573163016	761990	IS2	SWSD0158-080321	SWSD0165
SWSD0166-080121	10573163017	761990	IS1	SWSD0158-080321	SWSD0166
SWSD0167-080121	10573163018	761991	IS6	SWSD0174-080321	SWSD0167
SWSD0168-080121	10573163019	761991	IS5	SWSD0174-080321	SWSD0168
SWSD0169-080121	10573163020	761991	IS4	SWSD0174-080321	SWSD0169
SWSD0170-080121	10573163021	761991	IS3	SWSD0174-080321	SWSD0170

SWSD0171-080121	10573163022	761991	IS2	SWSD0174-080321	SWSD0171
SWSD0172-080121	10573163023	761991	IS1-N	SWSD0174-080321	SWSD0172
SWSD0173-080121	10573163024	761991	IS1-D	SWSD0174-080321	SWSD0173
SWSD0174-080321	10573163025	761991	FB	SWSD0174-080321	SWSD0174
SWSD0175-080121	10573163026	761991	IS7	SWSD0174-080321	SWSD0175
SWSD0176-080121	10573163027	761991	IS6	SWSD0174-080321	SWSD0176
SWSD0177-080121	10573163028	761991	IS5	SWSD0174-080321	SWSD0177
SWSD0178-080121	10573163029	761991	IS4	SWSD0174-080321	SWSD0178
SWSD0179-080121	10573163030	761991	IS3	SWSD0174-080321	SWSD0179
SWSD0180-080121	10573163031	761991	IS2	SWSD0174-080321	SWSD0180
SWSD0181-080121	10573163032	761991	IS1	SWSD0174-080321	SWSD0181
SWSD0182-080121	10573163033	761991	IS8	SWSD0194-080321	SWSD0182
SWSD0183-080121	10573163034	761991	IS7	SWSD0194-080321	SWSD0183
SWSD0184-080121	10573163035	761992	IS6	SWSD0194-080321	SWSD0184
SWSD0185-080121	10573163036	761992	IS5	SWSD0194-080321	SWSD0185
SWSD0186-080121	10573163037	761992	IS4	SWSD0194-080321	SWSD0186
SWSD0187-080121	10573163038	761992	IS3	SWSD0194-080321	SWSD0187
SWSD0188-080121	10573163039	761992	IS2	SWSD0194-080321	SWSD0188
SWSD0189-080121	10573163040	761992	IS1	SWSD0194-080321	SWSD0189
SWSD0190-080121	10573163041	761992	IS3	SWSD0194-080321	SWSD0190
SWSD0191-080121	10573163042	761992	IS2	SWSD0194-080321	SWSD0191
SWSD0192-080121	10573163043	761992	IS1-N	SWSD0194-080321	SWSD0192
SWSD0193-080121	10573163044	761992	IS1-D	SWSD0194-080321	SWSD0193
SWSD0194-080321	10573163045	761992	FB	SWSD0194-080321	SWSD0194
SWSD0195-080121	10573163046	No Dissolved Metals Analysis performed for this sample			
SWSD0196-080121	10573163047	761992	AS	SWSD0194-080321	SWSD0196
SWSD0197-080121	10573163048	761992	AS	SWSD0194-080322	SWSD0197
SWSD0198-080121	10573163049	761992	AS	SWSD0194-080321	SWSD0198
Total Metals					
SWSD0150-080121	10573163001	762131	IS7	SWSD0158-080321	SWSD0150
SWSD0151-080121	10573163002	762131	IS6	SWSD0158-080321	SWSD0151
SWSD0152-080121	10573163003	762131	IS5	SWSD0158-080321	SWSD0152
SWSD0153-080121	10573163004	762131	IS4	SWSD0158-080321	SWSD0153
SWSD0154-080121	10573163005	762131	IS3	SWSD0158-080321	SWSD0154

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0155-080121	10573163006	762131	IS2	SWSD0158-080321	SWSD0155
SWSD0156-080121	10573163007	762131	IS1-N	SWSD0158-080321	SWSD0156
SWSD0157-080121	10573163008	762131	IS1-D	SWSD0158-080321	SWSD0157
SWSD0158-080321	10573163009	762131	FB	SWSD0158-080321	SWSD0158
SWSD0159-080121	10573163010	762131	IS1	SWSD0158-080321	SWSD0159
SWSD0160-080121	10573163011	762131	IS3	SWSD0158-080321	SWSD0160
SWSD0161-080121	10573163012	762131	IS2	SWSD0158-080321	SWSD0161
SWSD0162-080121	10573163013	762131	IS1	SWSD0158-080321	SWSD0162
SWSD0163-080121	10573163014	762131	IS4	SWSD0158-080321	SWSD0163
SWSD0164-080121	10573163015	762131	IS3	SWSD0158-080321	SWSD0164
SWSD0165-080121	10573163016	762131	IS2	SWSD0158-080321	SWSD0165
SWSD0166-080121	10573163017	762131	IS1	SWSD0158-080321	SWSD0166
SWSD0167-080121	10573163018	762132	IS6	SWSD0174-080321	SWSD0167
SWSD0168-080121	10573163019	762132	IS5	SWSD0174-080321	SWSD0168
SWSD0169-080121	10573163020	762132	IS4	SWSD0174-080321	SWSD0169
SWSD0170-080121	10573163021	762132	IS3	SWSD0174-080321	SWSD0170
SWSD0171-080121	10573163022	762132	IS2	SWSD0174-080321	SWSD0171
SWSD0172-080121	10573163023	762132	IS1-N	SWSD0174-080321	SWSD0172
SWSD0173-080121	10573163024	762132	IS1-D	SWSD0174-080321	SWSD0173
SWSD0174-080321	10573163025	764616	FB	SWSD0174-080321	SWSD0174
SWSD0175-080121	10573163026	762132	IS7	SWSD0174-080321	SWSD0175
SWSD0176-080121	10573163027	762132	IS6	SWSD0174-080321	SWSD0176
SWSD0177-080121	10573163028	762132	IS5	SWSD0174-080321	SWSD0177
SWSD0178-080121	10573163029	762132	IS4	SWSD0174-080321	SWSD0178
SWSD0179-080121	10573163030	762132	IS3	SWSD0174-080321	SWSD0179
SWSD0180-080121	10573163031	762132	IS2	SWSD0174-080321	SWSD0180
SWSD0181-080121	10573163032	762132	IS1	SWSD0174-080321	SWSD0181
SWSD0182-080121	10573163033	762132	IS8	SWSD0194-080321	SWSD0182
SWSD0183-080121	10573163034	762132	IS7	SWSD0194-080321	SWSD0183
SWSD0184-080121	10573163035	762133	IS6	SWSD0194-080321	SWSD0184
SWSD0185-080121	10573163036	762133	IS5	SWSD0194-080321	SWSD0185
SWSD0186-080121	10573163037	762133	IS4	SWSD0194-080321	SWSD0186
SWSD0187-080121	10573163038	762133	IS3	SWSD0194-080321	SWSD0187

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0188-080121	10573163039	762133	IS2	SWSD0194-080321	SWSD0188
SWSD0189-080121	10573163040	762133	IS1	SWSD0194-080321	SWSD0189
SWSD0190-080121	10573163041	762133	IS3	SWSD0194-080321	SWSD0190
SWSD0191-080121	10573163042	762133	IS2	SWSD0194-080321	SWSD0191
SWSD0192-080121	10573163043	762133	IS1-N	SWSD0194-080321	SWSD0192
SWSD0193-080121	10573163044	762133	IS1-D	SWSD0194-080321	SWSD0193
SWSD0194-080321	10573163045	762133	FB	SWSD0194-080321	SWSD0194
SWSD0195-080121	10573163046	762133	AS	SWSD0194-080321	SWSD0195
SWSD0196-080121	10573163047	762133	AS	SWSD0194-080321	SWSD0196
SWSD0197-080121	10573163048	762133	AS	SWSD0194-080322	SWSD0197
SWSD0198-080121	10573163049	762133	AS	SWSD0194-080321	SWSD0198

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/1/2021, 8/3/2021	8/17/2021, 8/18/2021	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/1/2021, 8/3/2021	8/16/2021-8/18/2021, 8/21/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

***QC Batch 762132**, CuTR and PbTR were detected in MB 4063464 at concentrations >1.5X MDL. All associated CuTR and PbTR instrument results (result/dilution factor) were >10X the MB detections.*

***QC Batch 761992**, FeDis was detected in MB 4062983 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of ICS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC Batch 762131** , MS 4063451 MSD 4063452 FeTR and ZnTR recoveries >130%. MS 4063453 CuTR and ZnTR recoveries >130%. No associated FeTR, ZnTR, or CuTR results were qualified because the parent sample concentrations were >4X the spike concentrations.*

Are there any additional analytical limitations that users should be aware of?	Y_X_ N___

Dissolved metals; AsDis, CdDis, CuDis, FeDis, PbDis, and ZnDis analysis was not performed for Sample SWSD0195

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10573163
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	8/1/2021, 8/3/2021	**Analysis Date(s):**	8/6/2021, 8/10/2021
Data Validator:	Michele Bay	**Validation Date:**	9/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0150-080121	10573163001	761629	IS7	SWSD0158-080321	SWSD0150
SWSD0151-080121	10573163002	761629	IS6	SWSD0158-080321	SWSD0151
SWSD0152-080121	10573163003	761629	IS5	SWSD0158-080321	SWSD0152
SWSD0153-080121	10573163004	761629	IS4	SWSD0158-080321	SWSD0153
SWSD0154-080121	10573163005	761629	IS3	SWSD0158-080321	SWSD0154
SWSD0155-080121	10573163006	761629	IS2	SWSD0158-080321	SWSD0155
SWSD0156-080121	10573163007	761629	IS1-N	SWSD0158-080321	SWSD0156
SWSD0157-080121	10573163008	761629	IS1-D	SWSD0158-080321	SWSD0157
SWSD0158-080321	10573163009	762344	FB	SWSD0158-080321	SWSD0158
SWSD0159-080121	10573163010	761629	IS1	SWSD0158-080321	SWSD0159
SWSD0160-080121	10573163011	761629	IS3	SWSD0158-080321	SWSD0160
SWSD0161-080121	10573163012	761629	IS2	SWSD0158-080321	SWSD0161
SWSD0162-080121	10573163013	761629	IS1	SWSD0158-080321	SWSD0162
SWSD0163-080121	10573163014	761629	IS4	SWSD0158-080321	SWSD0163
SWSD0164-080121	10573163015	761629	IS3	SWSD0158-080321	SWSD0164
SWSD0165-080121	10573163016	761631	IS2	SWSD0158-080321	SWSD0165
SWSD0166-080121	10573163017	761631	IS1	SWSD0158-080321	SWSD0166
SWSD0167-080121	10573163018	761631	IS6	SWSD0174-080321	SWSD0167
SWSD0168-080121	10573163019	761631	IS5	SWSD0174-080321	SWSD0168
SWSD0169-080121	10573163020	761631	IS4	SWSD0174-080321	SWSD0169
SWSD0170-080121	10573163021	761631	IS3	SWSD0174-080321	SWSD0170

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

SWSD0171-080121	10573163022	761631	IS2	SWSD0174-080321	SWSD0171
SWSD0172-080121	10573163023	761631	IS1-N	SWSD0174-080321	SWSD0172
SWSD0173-080121	10573163024	761631	IS1-D	SWSD0174-080321	SWSD0173
SWSD0174-080321	10573163025	762344	FB	SWSD0174-080321	SWSD0174
SWSD0175-080121	10573163026	761631	IS7	SWSD0174-080321	SWSD0175
SWSD0176-080121	10573163027	761631	IS6	SWSD0174-080321	SWSD0176
SWSD0177-080121	10573163028	761631	IS5	SWSD0174-080321	SWSD0177
SWSD0178-080121	10573163029	761631	IS4	SWSD0174-080321	SWSD0178
SWSD0179-080121	10573163030	761631	IS3	SWSD0174-080321	SWSD0179
SWSD0180-080121	10573163031	761631	IS2	SWSD0174-080321	SWSD0180
SWSD0181-080121	10573163032	761631	IS1	SWSD0174-080321	SWSD0181
SWSD0182-080121	10573163033	761631	IS8	SWSD0194-080321	SWSD0182
SWSD0183-080121	10573163034	761631	IS7	SWSD0194-080321	SWSD0183
SWSD0184-080121	10573163035	761631	IS6	SWSD0194-080321	SWSD0184
SWSD0185-080121	10573163036	761631	IS5	SWSD0194-080321	SWSD0185
SWSD0186-080121	10573163037	761632	IS4	SWSD0194-080321	SWSD0186
SWSD0187-080121	10573163038	761632	IS3	SWSD0194-080321	SWSD0187
SWSD0188-080121	10573163039	761632	IS2	SWSD0194-080321	SWSD0188
SWSD0189-080121	10573163040	761632	IS1	SWSD0194-080321	SWSD0189
SWSD0190-080121	10573163041	761632	IS3	SWSD0194-080321	SWSD0190
SWSD0191-080121	10573163042	761632	IS2	SWSD0194-080321	SWSD0191
SWSD0192-080121	10573163043	761632	IS1-N	SWSD0194-080321	SWSD0192
SWSD0193-080121	10573163044	761632	IS1-D	SWSD0194-080321	SWSD0193
SWSD0194-080321	10573163045	762344	FB	SWSD0194-080321	SWSD0194
SWSD0195-080121	10573163046	No TSS analysis performed for this sample			
SWSD0196-080121	10573163047	761632	AS	SWSD0194-080321	SWSD0196
SWSD0197-080121	10573163048	761632	AS	SWSD0194-080321	SWSD0197
SWSD0198-080121	10573163049	No TSS analysis performed for this sample			

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/1/2021, 8/3/2021	8/6/2021, 8/10/2021	No

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y____ N_____ NA_X_
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y___ N_X_
Were any data flagged because of LDS problems?	Y_X_ N___

Describe corrective actions taken because of LDS problems.

***QC Batch 761629**, laboratory duplicate 4060818 TSS RPD >10% and primary and duplicate sample results were ≥5X the RL. Associated TSS sample results SWSD0150-SWSD0157 and SWSD0159-SWSD0164 were ≥MDL and qualified J. Since TSS analysis is not prone to chemical interference, matrix similarity is not considered when assessing laboratory precision for TSS.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

No TSS analysis performed on samples SWSD0195 and SWSD0198

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10573163
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	8/1/2021, 8/3/2021	**Analysis Date(s):**	8/16/2021, 8/18/2021-8/20/2021
Data Validator:	Michele Bay	**Validation Date:**	9/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0150-080121	10573163001	763352	IS7	SWSD0158-080321	SWSD0150
SWSD0151-080121	10573163002	763352	IS6	SWSD0158-080321	SWSD0151
SWSD0152-080121	10573163003	763352	IS5	SWSD0158-080321	SWSD0152
SWSD0153-080121	10573163004	764344	IS4	SWSD0158-080321	SWSD0153
SWSD0154-080121	10573163005	764344	IS3	SWSD0158-080321	SWSD0154
SWSD0155-080121	10573163006	764344	IS2	SWSD0158-080321	SWSD0155
SWSD0156-080121	10573163007	764344	IS1-N	SWSD0158-080321	SWSD0156
SWSD0157-080121	10573163008	764344	IS1-D	SWSD0158-080321	SWSD0157
SWSD0158-080321	10573163009	764344	FB	SWSD0158-080321	SWSD0158
SWSD0159-080121	10573163010	764344	IS1	SWSD0158-080321	SWSD0159
SWSD0160-080121	10573163011	764344	IS3	SWSD0158-080321	SWSD0160
SWSD0161-080121	10573163012	764344	IS2	SWSD0158-080321	SWSD0161
SWSD0162-080121	10573163013	764344	IS1	SWSD0158-080321	SWSD0162
SWSD0163-080121	10573163014	764344	IS4	SWSD0158-080321	SWSD0163
SWSD0164-080121	10573163015	764344	IS3	SWSD0158-080321	SWSD0164
SWSD0165-080121	10573163016	764344	IS2	SWSD0158-080321	SWSD0165
SWSD0166-080121	10573163017	764344	IS1	SWSD0158-080321	SWSD0166
SWSD0167-080121	10573163018	764344	IS6	SWSD0174-080321	SWSD0167
SWSD0168-080121	10573163019	764344	IS5	SWSD0174-080321	SWSD0168
SWSD0169-080121	10573163020	764344	IS4	SWSD0174-080321	SWSD0169
SWSD0170-080121	10573163021	764344	IS3	SWSD0174-080321	SWSD0170

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWSD0171-080121	10573163022	764344	IS2	SWSD0174-080321	SWSD0171
SWSD0172-080121	10573163023	764344	IS1-N	SWSD0174-080321	SWSD0172
SWSD0173-080121	10573163024	764345	IS1-D	SWSD0174-080321	SWSD0173
SWSD0174-080321	10573163025	764345	FB	SWSD0174-080321	SWSD0174
SWSD0175-080121	10573163026	764345	IS7	SWSD0174-080321	SWSD0175
SWSD0176-080121	10573163027	764345	IS6	SWSD0174-080321	SWSD0176
SWSD0177-080121	10573163028	764345	IS5	SWSD0174-080321	SWSD0177
SWSD0178-080121	10573163029	764345	IS4	SWSD0174-080321	SWSD0178
SWSD0179-080121	10573163030	764345	IS3	SWSD0174-080321	SWSD0179
SWSD0180-080121	10573163031	764345	IS2	SWSD0174-080321	SWSD0180
SWSD0181-080121	10573163032	764345	IS1	SWSD0174-080321	SWSD0181
SWSD0182-080121	10573163033	764345	IS8	SWSD0194-080321	SWSD0182
SWSD0183-080121	10573163034	764345	IS7	SWSD0194-080321	SWSD0183
SWSD0184-080121	10573163035	764345	IS6	SWSD0194-080321	SWSD0184
SWSD0185-080121	10573163036	764345	IS5	SWSD0194-080321	SWSD0185
SWSD0186-080121	10573163037	764345	IS4	SWSD0194-080321	SWSD0186
SWSD0187-080121	10573163038	764345	IS3	SWSD0194-080321	SWSD0187
SWSD0188-080121	10573163039	764345	IS2	SWSD0194-080321	SWSD0188
SWSD0189-080121	10573163040	764345	IS1	SWSD0194-080321	SWSD0189
SWSD0190-080121	10573163041	764345	IS3	SWSD0194-080321	SWSD0190
SWSD0191-080121	10573163042	764345	IS2	SWSD0194-080321	SWSD0191
SWSD0192-080121	10573163043	764345	IS1-N	SWSD0194-080321	SWSD0192
SWSD0193-080121	10573163044	764346	IS1-D	SWSD0194-080321	SWSD0193
SWSD0194-080321	10573163045	764346	FB	SWSD0194-080321	SWSD0194
SWSD0195-080121	10573163046	No SO4 analysis performed for this sample			
SWSD0196-080121	10573163047	764346	AS	SWSD0194-080321	SWSD0196
SWSD0197-080121	10573163048	764346	AS	SWSD0194-080322	SWSD0197
SWSD0198-080121	10573163049	No SO4 analysis performed for this sample			

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	8/1/2021, 8/3/2021	8/16/2021, 8/18/2021-8/20/2021	No

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were the LCS/LCSD within control window of 80-120% recovery?	Y_X_ N___
Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 763352, *MS 4069587 MSD 4069588 recoveries >130%, parent sample concentration >4X the spike concentrations and the parent sample was not project associated, so matrix similarity could not be determined. No associated SO4 sample results were qualified based on these MS/MSD recoveries.*
QC Batch 764344, *MS 4074397 SO4 recovery >120%. Samples SWSD0153-SWSD0157 were collected from the same drainage as the parent sample, SWSD0154, thus considered to be of a similar matrix to the parent sample. The remaining samples in this QC batch were collected from different drainages or were a field blank, and considered to be dissimilar to the MS parent. Sulfate results in SWSD0153-SWSD0157 were > the MDL and qualified J+.*

Are there any additional analytical limitations that users should be aware of?	Y_X_ N___

No SO4 analysis was performed for samples SWSD0195 and SWSD0198

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10573163
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	8/1/2021, 8/3/2021		
Data Validator:	Michele Bay	**Validation Date:**	9/27/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0150-080121	10573163001	IS7	SWSD0158-080321	SWSD0150
SWSD0151-080121	10573163002	IS6	SWSD0158-080321	SWSD0151
SWSD0152-080121	10573163003	IS5	SWSD0158-080321	SWSD0152
SWSD0153-080121	10573163004	IS4	SWSD0158-080321	SWSD0153
SWSD0154-080121	10573163005	IS3	SWSD0158-080321	SWSD0154
SWSD0155-080121	10573163006	IS2	SWSD0158-080321	SWSD0155
SWSD0156-080121	10573163007	IS1-N	SWSD0158-080321	SWSD0156
SWSD0157-080121	10573163008	IS1-D	SWSD0158-080321	SWSD0157
SWSD0158-080321	10573163009	FB	SWSD0158-080321	SWSD0158
SWSD0159-080121	10573163010	IS1	SWSD0158-080321	SWSD0159
SWSD0160-080121	10573163011	IS3	SWSD0158-080321	SWSD0160
SWSD0161-080121	10573163012	IS2	SWSD0158-080321	SWSD0161
SWSD0162-080121	10573163013	IS1	SWSD0158-080321	SWSD0162
SWSD0163-080121	10573163014	IS4	SWSD0158-080321	SWSD0163
SWSD0164-080121	10573163015	IS3	SWSD0158-080321	SWSD0164
SWSD0165-080121	10573163016	IS2	SWSD0158-080321	SWSD0165
SWSD0166-080121	10573163017	IS1	SWSD0158-080321	SWSD0166
SWSD0167-080121	10573163018	IS6	SWSD0174-080321	SWSD0167
SWSD0168-080121	10573163019	IS5	SWSD0174-080321	SWSD0168

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWSD0169-080121	10573163020	IS4	SWSD0174-080321	SWSD0169
SWSD0170-080121	10573163021	IS3	SWSD0174-080321	SWSD0170
SWSD0171-080121	10573163022	IS2	SWSD0174-080321	SWSD0171
SWSD0172-080121	10573163023	IS1-N	SWSD0174-080321	SWSD0172
SWSD0173-080121	10573163024	IS1-D	SWSD0174-080321	SWSD0173
SWSD0174-080321	10573163025	FB	SWSD0174-080321	SWSD0174
SWSD0175-080121	10573163026	IS7	SWSD0174-080321	SWSD0175
SWSD0176-080121	10573163027	IS6	SWSD0174-080321	SWSD0176
SWSD0177-080121	10573163028	IS5	SWSD0174-080321	SWSD0177
SWSD0178-080121	10573163029	IS4	SWSD0174-080321	SWSD0178
SWSD0179-080121	10573163030	IS3	SWSD0174-080321	SWSD0179
SWSD0180-080121	10573163031	IS2	SWSD0174-080321	SWSD0180
SWSD0181-080121	10573163032	IS1	SWSD0174-080321	SWSD0181
SWSD0182-080121	10573163033	IS8	SWSD0194-080321	SWSD0182
SWSD0183-080121	10573163034	IS7	SWSD0194-080321	SWSD0183
SWSD0184-080121	10573163035	IS6	SWSD0194-080321	SWSD0184
SWSD0185-080121	10573163036	IS5	SWSD0194-080321	SWSD0185
SWSD0186-080121	10573163037	IS4	SWSD0194-080321	SWSD0186
SWSD0187-080121	10573163038	IS3	SWSD0194-080321	SWSD0187
SWSD0188-080121	10573163039	IS2	SWSD0194-080321	SWSD0188
SWSD0189-080121	10573163040	IS1	SWSD0194-080321	SWSD0189
SWSD0190-080121	10573163041	IS3	SWSD0194-080321	SWSD0190
SWSD0191-080121	10573163042	IS2	SWSD0194-080321	SWSD0191
SWSD0192-080121	10573163043	IS1-N	SWSD0194-080321	SWSD0192
SWSD0193-080121	10573163044	IS1-D	SWSD0194-080321	SWSD0193
SWSD0194-080321	10573163045	FB	SWSD0194-080321	SWSD0194
SWSD0195-080121	10573163046	AS	SWSD0194-080321	SWSD0195
SWSD0196-080121	10573163047	AS	SWSD0194-080321	SWSD0196
SWSD0198-080121	10573163049	AS	SWSD0194-080321	SWSD0198

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/1/2021, 8/3/2021	8/18/2021
Total Mercury	Aqueous	EPA 245.1	8/1/2021, 8/3/2021	8/18/2021

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/1/2021, 8/3/2021	8/17/2021, 8/18/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/1/2021, 8/3/2021	8/16/2021-8/18/2021, 8/21/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/1/2021, 8/3/2021	8/6/2021, 8/10/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/1/2021, 8/3/2021	8/16/2021, 8/18/2021-8/20/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FB problems? Y___ N_X_

HgDis and PbDis were detected in FB SWSD0158 at concentrations ≤1.5X MDL thus, were not further assessed per TREC data validation guidelines.

CdTR and PbDis were detected in FB SWSD0174 at concentrations ≤1.5X MDL thus, were not further assessed per TREC data validation guidelines.

CuDis was detected in FB SWSD0194 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.

CuDis and PbTR were detected in FB SWSD0158 at concentrations >1.5X MDL. Associated CuDis and PbTR results were >10X the FB value thus, were not qualified.

PbTR was detected in FB SWSD0174 at a concentration >1.5X MDL. Associated PbTR results were >10X the FB value thus, were not qualified.

PbTR was detected in FB SWSD0194 at a concentration >1.5X MDL. Associated PbTR results were >10X the FB value thus, were not qualified.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Field duplicate set SWSD0156/SWSD0157 TSS primary and duplicate results >5X RL and RPD>20%. Associated TSS sample results for SWSD0150-SWSD0157 and SWSD0159-SWSD0166 were ≥MDL and qualified J.

Field duplicate set SWSD0172/SWSD0173 HgTR, ZnDis, and TSS RPDs>20%. The primary and duplicate sample results for HgTR and ZnDis were <5X RL and the absolute differences between primary and duplicate results was <RL thus, no associated HgTR or ZnDis data were qualified. The primary and duplicate sample results for TSS were >5X RL. Associated TSS results for SWSD0167-SWSD0173 and SWSD0175-SWSD0181 were ≥MDL and qualified J.

Field duplicate set SWSD0192/SWSD0193 CdDis RPD>20%, but the primary and duplicate CdDis results were <5X RL and the absolute difference between primary and duplicate results was <RL thus, no associated CdDis results were qualified.

Additional Comments

DATA VALIDATION SUMMARY FOR SDG 10574254

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574254
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	8/8/2021, 8/11/2021	**Analysis Date(s):**	8/13/2021, 8/18/2021-8/20/2021, 8/23/2021-8/25/2021, 8/27/2021
Data Validator:	Michele Bay	**Validation Date:**	10/8/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/8/2021, 8/11/2021	8/19/2021
Total Mercury	Aqueous	EPA 245.1	8/8/2021, 8/11/2021	8/19/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/8/2021, 8/11/2021	8/18/2021, 8/19/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/8/2021, 8/11/2021	8/20/2021, 8/23/2021, 8/24/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/8/2021, 8/11/2021	8/13/2021, 8/18/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/8/2021, 8/11/2021	8/19/2021, 8/20/2021, 8/25/2021, 8/27/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	455	391	355	36	0
Percentage		86%	91%	9%	0%

DATA VALIDATION SUMMARY FOR SDG 10574254

Analyses of this sample set resulted with 391 natural sample data points. Of these, 355 (91%) had no quality control deficiencies and are defined as enforcement quality while, 36 (9%) had quality control deficiencies and are defined as screening quality. Of the 36 qualified data points, 7 were coded "MS" due to laboratory accuracy criteria not being met, 15 were coded "RPD" due to laboratory precision criteria not being met, 2 were coded "FB" due to field accuracy criteria not being met, 9 were coded "FD" due to field precision criteria not being met, and 3 were coded "FD,MS" for field precision and laboratory accuracy not being met. Only 391 of the anticipated 400 natural sample data points were collected thus, completeness for this data set is 98%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574254
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	8/8/2021, 8/11/2021	**Analysis Date(s):**	8/19/2021
Data Validator:	Michele Bay	**Validation Date:**	10/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0199-080821	10574254001	763831	IS7	SWSD0214-081121	SWSD0199
SWSD0200-080821	10574254002	763831	IS6	SWSD0214-081121	SWSD0200
SWSD0201-080821	10574254003	763831	IS5	SWSD0214-081121	SWSD0201
SWSD0202-080821	10574254004	763831	IS4	SWSD0214-081121	SWSD0202
SWSD0203-080821	10574254005	763831	IS2	SWSD0214-081121	SWSD0203
SWSD0204-080821	10574254006	763831	IS1	SWSD0214-081121	SWSD0204
SWSD0205-080821	10574254007	763831	IS6	SWSD0214-081121	SWSD0205
SWSD0206-080821	10574254008	763831	IS4	SWSD0214-081121	SWSD0206
SWSD0207-080821	10574254009	763831	IS6	SWSD0214-081121	SWSD0207
SWSD0208-080821	10574254010	763831	IS5	SWSD0214-081121	SWSD0208
SWSD0209-080821	10574254011	763831	IS4	SWSD0214-081121	SWSD0209
SWSD0210-080821	10574254012	763831	IS3	SWSD0214-081121	SWSD0210
SWSD0211-080821	10574254013	763831	IS2	SWSD0214-081121	SWSD0211
SWSD0212-080821	10574254014	763831	IS1-N	SWSD0214-081121	SWSD0212
SWSD0213-080821	10574254015	763831	IS1-D	SWSD0214-081121	SWSD0213
SWSD0214-081121	10574254016	763831	FB	SWSD0214-081121	SWSD0214
SWSD0215-080821	10574254017	763831	IS7	SWSD0226-081121	SWSD0215
SWSD0216-080821	10574254018	763832	IS6	SWSD0226-081121	SWSD0216
SWSD0217-080821	10574254019	763832	IS5	SWSD0226-081121	SWSD0217
SWSD0218-080821	10574254020	763832	IS4	SWSD0226-081121	SWSD0218

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0219-080821	10574254021	763832	IS3	SWSD0226-081121	SWSD0219
SWSD0220-080821	10574254022	763832	IS2	SWSD0226-081121	SWSD0220
SWSD0221-080821	10574254023	763832	IS1	SWSD0226-081121	SWSD0221
SWSD0222-080821	10574254024	763832	IS3	SWSD0226-081121	SWSD0222
SWSD0223-080821	10574254025	763832	IS2	SWSD0226-081121	SWSD0223
SWSD0224-080821	10574254026	763832	IS1-N	SWSD0226-081121	SWSD0224
SWSD0225-080821	10574254027	763832	IS1-D	SWSD0226-081121	SWSD0225
SWSD0226-081121	10574254028	763832	FB	SWSD0226-081121	SWSD0226
SWSD0227-080821	10574254029	No HgDis analysis			
Total Mercury					
SWSD0199-080821	10574254001	763893	IS7	SWSD0214-081121	SWSD0199
SWSD0200-080821	10574254002	763893	IS6	SWSD0214-081121	SWSD0200
SWSD0201-080821	10574254003	763893	IS5	SWSD0214-081121	SWSD0201
SWSD0202-080821	10574254004	763893	IS4	SWSD0214-081121	SWSD0202
SWSD0203-080821	10574254005	763893	IS2	SWSD0214-081121	SWSD0203
SWSD0204-080821	10574254006	763893	IS1	SWSD0214-081121	SWSD0204
SWSD0205-080821	10574254007	763893	IS6	SWSD0214-081121	SWSD0205
SWSD0206-080821	10574254008	763893	IS4	SWSD0214-081121	SWSD0206
SWSD0207-080821	10574254009	763893	IS6	SWSD0214-081121	SWSD0207
SWSD0208-080821	10574254010	763893	IS5	SWSD0214-081121	SWSD0208
SWSD0209-080821	10574254011	763893	IS4	SWSD0214-081121	SWSD0209
SWSD0210-080821	10574254012	763893	IS3	SWSD0214-081121	SWSD0210
SWSD0211-080821	10574254013	763893	IS2	SWSD0214-081121	SWSD0211
SWSD0212-080821	10574254014	763893	IS1-N	SWSD0214-081121	SWSD0212
SWSD0213-080821	10574254015	763893	IS1-D	SWSD0214-081121	SWSD0213
SWSD0214-081121	10574254016	763893	FB	SWSD0214-081121	SWSD0214
SWSD0215-080821	10574254017	763893	IS7	SWSD0226-081121	SWSD0215
SWSD0216-080821	10574254018	763894	IS6	SWSD0226-081121	SWSD0216
SWSD0217-080821	10574254019	763894	IS5	SWSD0226-081121	SWSD0217
SWSD0218-080821	10574254020	763894	IS4	SWSD0226-081121	SWSD0218
SWSD0219-080821	10574254021	763894	IS3	SWSD0226-081121	SWSD0219
SWSD0220-080821	10574254022	763894	IS2	SWSD0226-081121	SWSD0220
SWSD0221-080821	10574254023	763894	IS1	SWSD0226-081121	SWSD0221

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0222-080821	10574254024	763894	IS3	SWSD0226-081121	SWSD0222
SWSD0223-080821	10574254025	763894	IS2	SWSD0226-081121	SWSD0223
SWSD0224-080821	10574254026	763894	IS1-N	SWSD0226-081121	SWSD0224
SWSD0225-080821	10574254027	763894	IS1-D	SWSD0226-081121	SWSD0225
SWSD0226-081121	10574254028	763894	FB	SWSD0226-081121	SWSD0226
SWSD0227-080821	10574254029	763894	AS	SWSD0226-081122	SWSD0227

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	8/8/2021, 8/11/2021	8/19/2021	No
Total Mercury	Aqueous	EPA 245.1	8/8/2021, 8/11/2021	8/19/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y_X_ N___
Sample SWSD0227 was not analyzed for HgDis.	

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574254
Matrix:	Aqueous	**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	8/8/2021, 8/11/2021	**Analysis Date(s):**	8/18/2021, 8/19/2021, 8/20/2021, 8/23/2021, 8/24/2021
Data Validator:	Michele Bay	**Validation Date:**	10/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWSD0199-080821	10574254001	763827	IS7	SWSD0214-081121	SWSD0199
SWSD0200-080821	10574254002	763827	IS6	SWSD0214-081121	SWSD0200
SWSD0201-080821	10574254003	763827	IS5	SWSD0214-081121	SWSD0201
SWSD0202-080821	10574254004	763827	IS4	SWSD0214-081121	SWSD0202
SWSD0203-080821	10574254005	763827	IS2	SWSD0214-081121	SWSD0203
SWSD0204-080821	10574254006	763827	IS1	SWSD0214-081121	SWSD0204
SWSD0205-080821	10574254007	763827	IS6	SWSD0214-081121	SWSD0205
SWSD0206-080821	10574254008	763827	IS4	SWSD0214-081121	SWSD0206
SWSD0207-080821	10574254009	763827	IS6	SWSD0214-081121	SWSD0207
SWSD0208-080821	10574254010	763827	IS5	SWSD0214-081121	SWSD0208
SWSD0209-080821	10574254011	763827	IS4	SWSD0214-081121	SWSD0209
SWSD0210-080821	10574254012	763827	IS3	SWSD0214-081121	SWSD0210
SWSD0211-080821	10574254013	763827	IS2	SWSD0214-081121	SWSD0211
SWSD0212-080821	10574254014	763827	IS1-N	SWSD0214-081121	SWSD0212
SWSD0213-080821	10574254015	763827	IS1-D	SWSD0214-081121	SWSD0213
SWSD0214-081121	10574254016	763827	FB	SWSD0214-081121	SWSD0214
SWSD0215-080821	10574254017	763827	IS7	SWSD0226-081121	SWSD0215
SWSD0216-080821	10574254018	763828	IS6	SWSD0226-081121	SWSD0216
SWSD0217-080821	10574254019	763828	IS5	SWSD0226-081121	SWSD0217
SWSD0218-080821	10574254020	763828	IS4	SWSD0226-081121	SWSD0218

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0219-080821	10574254021	763828	IS3	SWSD0226-081121	SWSD0219
SWSD0220-080821	10574254022	763828	IS2	SWSD0226-081121	SWSD0220
SWSD0221-080821	10574254023	763828	IS1	SWSD0226-081121	SWSD0221
SWSD0222-080821	10574254024	763828	IS3	SWSD0226-081121	SWSD0222
SWSD0223-080821	10574254025	763828	IS2	SWSD0226-081121	SWSD0223
SWSD0224-080821	10574254026	763828	IS1-N	SWSD0226-081121	SWSD0224
SWSD0225-080821	10574254027	763828	IS1-D	SWSD0226-081121	SWSD0225
SWSD0226-081121	10574254028	763828	FB	SWSD0226-081121	SWSD0226
SWSD0227-080821	10574254029	No dissolved metals analysis			
Total Metals					
SWSD0199-080821	10574254001	763890	IS7	SWSD0214-081121	SWSD0199
SWSD0200-080821	10574254002	763890	IS6	SWSD0214-081121	SWSD0200
SWSD0201-080821	10574254003	763890	IS5	SWSD0214-081121	SWSD0201
SWSD0202-080821	10574254004	763890	IS4	SWSD0214-081121	SWSD0202
SWSD0203-080821	10574254005	763890	IS2	SWSD0214-081121	SWSD0203
SWSD0204-080821	10574254006	763890	IS1	SWSD0214-081121	SWSD0204
SWSD0205-080821	10574254007	763890	IS6	SWSD0214-081121	SWSD0205
SWSD0206-080821	10574254008	763890	IS4	SWSD0214-081121	SWSD0206
SWSD0207-080821	10574254009	763890	IS6	SWSD0214-081121	SWSD0207
SWSD0208-080821	10574254010	763890	IS5	SWSD0214-081121	SWSD0208
SWSD0209-080821	10574254011	763890	IS4	SWSD0214-081121	SWSD0209
SWSD0210-080821	10574254012	763890	IS3	SWSD0214-081121	SWSD0210
SWSD0211-080821	10574254013	763890	IS2	SWSD0214-081121	SWSD0211
SWSD0212-080821	10574254014	763890	IS1-N	SWSD0214-081121	SWSD0212
SWSD0213-080821	10574254015	763890	IS1-D	SWSD0214-081121	SWSD0213
SWSD0214-081121	10574254016	763890	FB	SWSD0214-081121	SWSD0214
SWSD0215-080821	10574254017	763890	IS7	SWSD0226-081121	SWSD0215
SWSD0216-080821	10574254018	763896	IS6	SWSD0226-081121	SWSD0216
SWSD0217-080821	10574254019	763896	IS5	SWSD0226-081121	SWSD0217
SWSD0218-080821	10574254020	763896	IS4	SWSD0226-081121	SWSD0218
SWSD0219-080821	10574254021	763896	IS3	SWSD0226-081121	SWSD0219
SWSD0220-080821	10574254022	763896	IS2	SWSD0226-081121	SWSD0220
SWSD0221-080821	10574254023	763896	IS1	SWSD0226-081121	SWSD0221

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0222-080821	10574254024	763896	IS3	SWSD0226-081121	SWSD0222
SWSD0223-080821	10574254025	763896	IS2	SWSD0226-081121	SWSD0223
SWSD0224-080821	10574254026	763896	IS1-N	SWSD0226-081121	SWSD0224
SWSD0225-080821	10574254027	763896	IS1-D	SWSD0226-081121	SWSD0225
SWSD0226-081121	10574254028	763896	FB	SWSD0226-081121	SWSD0226
SWSD0227-080821	10574254029	763896	AS	SWSD0226-081122	SWSD0227

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/8/2021, 8/11/2021	8/18/2021, 8/19/2021	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/8/2021, 8/11/2021	8/20/2021, 8/23/2021, 8/24/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC Batch 763890**, MS 4072694 FeTR recovery >130%. No associated FeTR sample results were qualified because the parent sample concentration was >4X the spike concentration.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

Sample SWSD0227 was not analyzed for Dissolved As, Cd, Cu, Fe, Pb, Zn

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574254
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	8/8/2021, 8/11/2021	**Analysis Date(s):**	8/13/2021, 8/18/2021
Data Validator:	Michele Bay	**Validation Date:**	10/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0199-080821	10574254001	763323	IS7	SWSD0214-081121	SWSD0199
SWSD0200-080821	10574254002	763323	IS6	SWSD0214-081121	SWSD0200
SWSD0201-080821	10574254003	763323	IS5	SWSD0214-081121	SWSD0201
SWSD0202-080821	10574254004	763323	IS4	SWSD0214-081121	SWSD0202
SWSD0203-080821	10574254005	763323	IS2	SWSD0214-081121	SWSD0203
SWSD0204-080821	10574254006	763323	IS1	SWSD0214-081121	SWSD0204
SWSD0205-080821	10574254007	763323	IS6	SWSD0214-081121	SWSD0205
SWSD0206-080821	10574254008	763323	IS4	SWSD0214-081121	SWSD0206
SWSD0207-080821	10574254009	763323	IS6	SWSD0214-081121	SWSD0207
SWSD0208-080821	10574254010	763323	IS5	SWSD0214-081121	SWSD0208
SWSD0209-080821	10574254011	763323	IS4	SWSD0214-081121	SWSD0209
SWSD0210-080821	10574254012	763323	IS3	SWSD0214-081121	SWSD0210
SWSD0211-080821	10574254013	763323	IS2	SWSD0214-081121	SWSD0211
SWSD0212-080821	10574254014	763323	IS1-N	SWSD0214-081121	SWSD0212
SWSD0213-080821	10574254015	763323	IS1-D	SWSD0214-081121	SWSD0213
SWSD0214-081121	10574254016	763323	FB	SWSD0214-081121	SWSD0214
SWSD0215-080821	10574254017	763323	IS7	SWSD0226-081121	SWSD0215
SWSD0216-080821	10574254018	763326	IS6	SWSD0226-081121	SWSD0216
SWSD0217-080821	10574254019	763326	IS5	SWSD0226-081121	SWSD0217
SWSD0218-080821	10574254020	763326	IS4	SWSD0226-081121	SWSD0218
SWSD0219-080821	10574254021	763326	IS3	SWSD0226-081121	SWSD0219

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

SWSD0220-080821	10574254022	763326	IS2	SWSD0226-081121	SWSD0220
SWSD0221-080821	10574254023	763326	IS1	SWSD0226-081121	SWSD0221
SWSD0222-080821	10574254024	763326	IS3	SWSD0226-081121	SWSD0222
SWSD0223-080821	10574254025	763326	IS2	SWSD0226-081121	SWSD0223
SWSD0224-080821	10574254026	763326	IS1-N	SWSD0226-081121	SWSD0224
SWSD0225-080821	10574254027	763326	IS1-D	SWSD0226-081121	SWSD0225
SWSD0226-081121	10574254028	764144	FB	SWSD0226-081121	SWSD0226
SWSD0227-080821	10574254029	No TSS analysis			

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/8/2021, 8/11/2021	8/13/2021, 8/18/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y_____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Describe corrective actions taken because of LDS problems.

***QC Batch 763323** , sample duplicate 4069485 RPD>10% and the primary and duplicate sample results were >5X RL. Associated TSS sample results SWSD0199-SWSD0213 and SWSD0215 were ≥MDL and qualified J.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

Sample SWSD0227 was not analyzed for TSS

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574254
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	8/8/2021, 8/11/2021	**Analysis Date(s):**	8/19/2021, 8/20/2021, 8/25/2021, 8/27/2021
Data Validator:	Michele Bay	**Validation Date:**	10/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0199-080821	10574254001	764633	IS7	SWSD0214-081121	SWSD0199
SWSD0200-080821	10574254002	764633	IS6	SWSD0214-081121	SWSD0200
SWSD0201-080821	10574254003	764633	IS5	SWSD0214-081121	SWSD0201
SWSD0202-080821	10574254004	764633	IS4	SWSD0214-081121	SWSD0202
SWSD0203-080821	10574254005	764633	IS2	SWSD0214-081121	SWSD0203
SWSD0204-080821	10574254006	764633	IS1	SWSD0214-081121	SWSD0204
SWSD0205-080821	10574254007	764633	IS6	SWSD0214-081121	SWSD0205
SWSD0206-080821	10574254008	765934	IS4	SWSD0214-081121	SWSD0206
SWSD0207-080821	10574254009	766356	IS6	SWSD0214-081121	SWSD0207
SWSD0208-080821	10574254010	766356	IS5	SWSD0214-081121	SWSD0208
SWSD0209-080821	10574254011	766356	IS4	SWSD0214-081121	SWSD0209
SWSD0210-080821	10574254012	765934	IS3	SWSD0214-081121	SWSD0210
SWSD0211-080821	10574254013	765934	IS2	SWSD0214-081121	SWSD0211
SWSD0212-080821	10574254014	765934	IS1-N	SWSD0214-081121	SWSD0212
SWSD0213-080821	10574254015	765934	IS1-D	SWSD0214-081121	SWSD0213
SWSD0214-081121	10574254016	765934	FB	SWSD0214-081121	SWSD0214
SWSD0215-080821	10574254017	765934	IS7	SWSD0226-081121	SWSD0215
SWSD0216-080821	10574254018	765934	IS6	SWSD0226-081121	SWSD0216
SWSD0217-080821	10574254019	765934	IS5	SWSD0226-081121	SWSD0217
SWSD0218-080821	10574254020	765934	IS4	SWSD0226-081121	SWSD0218
SWSD0219-080821	10574254021	765934	IS3	SWSD0226-081121	SWSD0219

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWSD0220-080821	10574254022	765934	IS2	SWSD0226-081121	SWSD0220
SWSD0221-080821	10574254023	765934	IS1	SWSD0226-081121	SWSD0221
SWSD0222-080821	10574254024	765934	IS3	SWSD0226-081121	SWSD0222
SWSD0223-080821	10574254025	765934	IS2	SWSD0226-081121	SWSD0223
SWSD0224-080821	10574254026	765934	IS1-N	SWSD0226-081121	SWSD0224
SWSD0225-080821	10574254027	765934	IS1-D	SWSD0226-081121	SWSD0225
SWSD0226-081121	10574254028	765965	FB	SWSD0226-081121	SWSD0226
SWSD0227-080821	10574254029	No SO4 analysis			

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	8/8/2021, 8/11/2021	8/19/2021, 8/20/2021, 8/25/2021, 8/27/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were the LCS/LCSD within control window of 80-120% recovery? Y_X_ N___

Was the LCS/LCSD ≤ 20% relative percent difference (RPD)? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 765934**, MS 4082020 MSD 4082021 SO4 recoveries >120%. The parent sample for this MS/MSD, SWSD0216, was collected from the same drainage as samples SWSD0215-SWSD0221. The remaining samples in this QC batch were collected from different drainages, and as evidenced by total metals and TSS concentration, were of a dissimilar matrix than SWSD0216. Thus, sulfate results for only SWSD0215-SWSD0221 were qualified based on the high MS/MSD recoveries. Sulfate results for SWSD0215-SWSD0221 were > the MDL and qualified J+.*

***QC Batch 766356**, MS 4083813 MSD 4083814 SO4 recoveries >120%. Associated SO4 sample results SWSD0207-SWSD0209, all collected from the same drainage, were ≥MDL and qualified J+.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

Sample SWSD0227 was not analyzed for SO4.

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574254
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	8/8/2021, 8/11/2021		
Data Validator:	Michele Bay	**Validation Date:**	10/8/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0199-080821	10574254001	IS7	SWSD0214-081121	SWSD0199
SWSD0200-080821	10574254002	IS6	SWSD0214-081121	SWSD0200
SWSD0201-080821	10574254003	IS5	SWSD0214-081121	SWSD0201
SWSD0202-080821	10574254004	IS4	SWSD0214-081121	SWSD0202
SWSD0203-080821	10574254005	IS2	SWSD0214-081121	SWSD0203
SWSD0204-080821	10574254006	IS1	SWSD0214-081121	SWSD0204
SWSD0205-080821	10574254007	IS6	SWSD0214-081121	SWSD0205
SWSD0206-080821	10574254008	IS4	SWSD0214-081121	SWSD0206
SWSD0207-080821	10574254009	IS6	SWSD0214-081121	SWSD0207
SWSD0208-080821	10574254010	IS5	SWSD0214-081121	SWSD0208
SWSD0209-080821	10574254011	IS4	SWSD0214-081121	SWSD0209
SWSD0210-080821	10574254012	IS3	SWSD0214-081121	SWSD0210
SWSD0211-080821	10574254013	IS2	SWSD0214-081121	SWSD0211
SWSD0212-080821	10574254014	IS1-N	SWSD0214-081121	SWSD0212
SWSD0213-080821	10574254015	IS1-D	SWSD0214-081121	SWSD0213
SWSD0214-081121	10574254016	FB	SWSD0214-081121	SWSD0214
SWSD0215-080821	10574254017	IS7	SWSD0226-081121	SWSD0215
SWSD0216-080821	10574254018	IS6	SWSD0226-081121	SWSD0216
SWSD0217-080821	10574254019	IS5	SWSD0226-081121	SWSD0217

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWSD0218-080821	10574254020	IS4	SWSD0226-081121	SWSD0218
SWSD0219-080821	10574254021	IS3	SWSD0226-081121	SWSD0219
SWSD0220-080821	10574254022	IS2	SWSD0226-081121	SWSD0220
SWSD0221-080821	10574254023	IS1	SWSD0226-081121	SWSD0221
SWSD0222-080821	10574254024	IS3	SWSD0226-081121	SWSD0222
SWSD0223-080821	10574254025	IS2	SWSD0226-081121	SWSD0223
SWSD0224-080821	10574254026	IS1-N	SWSD0226-081121	SWSD0224
SWSD0225-080821	10574254027	IS1-D	SWSD0226-081121	SWSD0225
SWSD0226-081121	10574254028	FB	SWSD0226-081121	SWSD0226
SWSD0227-080821	10574254029	AS	SWSD0226-081122	SWSD0227

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/8/2021, 8/11/2021	8/19/2021
Total Mercury	Aqueous	EPA 245.1	8/8/2021, 8/11/2021	8/19/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/8/2021, 8/11/2021	8/18/2021, 8/19/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/8/2021, 8/11/2021	8/20/2021, 8/23/2021, 8/24/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/8/2021, 8/11/2021	8/13/2021, 8/18/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/8/2021, 8/11/2021	8/19/2021, 8/20/2021, 8/25/2021, 8/27/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FB problems? Y_X_ N___

*CuTR was detected in **FB SWSD0214** at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

*FeTR and PbTR were detected in **FB SWSD0214** at concentrations >1.5X MDL. Associated FeTR results for SWSD0199 and SWSD0203 were >RL, but ≤10X the FB value and were qualified J+. Associated FeTR sample results SWSD0200 -SWSD0202 and SWSD0204-SWSD0213 were >10X the FB value and were not qualified. Associated PbTR sample results were >10X the FB value and were not qualified.*

*PbTR was detected in **FB SWSD0226** at a concentraton >1.5X MDL. Associated PbTR results were >10X the FB value and were not qualified.*

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FDs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FD results? Y_X_ N___

Field duplicate set SWSD0212/SWSD0213 *CuDis, SO4, and ZnDis RPDs>20%. The primary and duplicate sample results for ZnDis were <5X RL and the absolute difference between primary and duplicate sample results were <RL thus, no associated ZnDis results were qualified. The primary and duplicate sample results for CuDis and sulfate were >5X RL. Matrix similarity is considered when assessing field duplicates. Samples SWSD0207-SWSD0211 were collected from the same drainage as field duplicate set, SWSD0212/SWSD0213, and are considered to be of a similar matrix to the field duplicate set. Associated CuDis results for SWSD0207-SWSD0213 were ≥MDL and qualified J. Sulfate results for SWSD0207- SWSD0209 were > the MDL and also qualified for a high MS recovery; therefore, a J+ qualifier was applied. Sulfate results for SWSD0210-SWSD0213 were > the MDL and qualified J.*

Additional Comments

DATA VALIDATION SUMMARY FOR SDG 10575529

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575529
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	08/18/2021, 08/20/2021		
Data Validator:	Nadia Reed	**Validation Date:**	11/5/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	08/18/2021, 08/20/2021	08/25/2021
Total Mercury	Aqueous	EPA 245.1	08/18/2021, 08/20/2021	08/25/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	08/18/2021, 08/20/2021	08/26/2021, 8/30/21
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	08/18/2021, 08/20/2021	08/26/2021, 08/27/2021, 08/30/2021, 09/01/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	08/18/2021, 08/20/2021	08/24/2021, 08/25/2021
Sulfate (SO4)	Aqueous	ASTM D516	08/18/2021, 08/20/2021	09/02/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X__ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X__ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	389	325	304	21	0
Percentage		84%	94%	6%	0%

Analyses of this sample set resulted in 325 natural sample data points. Of these, 304 (94%) data points had no associated quality control deficiencies and are defined as enforcement quality; while, 21 (6%) had quality control deficiencies and are defined as screening quality. Of the screening quality data points, six were coded MS due to lab accuracy criteria not being met; and 15 were coded RPD due to lab precision criteria not being met. Of the 352 anticipated data points, 325 were collected; thus, completeness for this data set is 92%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575529
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	08/18/2021, 08/20/2021	**Analysis Date(s):**	08/25/2021, 08/25/2021
Data Validator:	Nadia Reed	**Validation Date:**	11/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0228-081821	10575529001	765485	IS7	SWSD0240-082021	SWSD0228
SWSD0229-081821	10575529002	765485	IS6	SWSD0240-082021	SWSD0229
SWSD0230-081821	10575529003	765485	IS5	SWSD0240-082021	SWSD0230
SWSD0231-081821	10575529004	765485	IS4	SWSD0240-082021	SWSD0231
SWSD0232-081821	10575529005	765485	IS2	SWSD0240-082021	SWSD0232
SWSD0233-081821	10575529006	765485	IS1	SWSD0240-082021	SWSD0233
SWSD0234-081821	10575529007	Insufficient volume for Hg analysis			
SWSD0235-081821	10575529008	765485	IS1	SWSD0240-082021	SWSD0235
SWSD0236-081821	10575529009	765485	IS1	SWSD0240-082021	SWSD0236
SWSD0237-081821	10575529010	765485	IS7	SWSD0240-082021	SWSD0237
SWSD0238-081821	10575529011	765485	IS6-N	SWSD0240-082021	SWSD0238
SWSD0239-081821	10575529012	765485	IS6-D	SWSD0240-082021	SWSD0239
SWSD0240-082021	10575529013	765485	FB	SWSD0240-082021	SWSD0240
SWSD0241-081821	10575529014	765485	IS6	SWSD0247-082021	SWSD0241
SWSD0242-081821	10575529015	765485	IS5	SWSD0247-082021	SWSD0242
SWSD0243-081821	10575529016	765485	IS4	SWSD0247-082021	SWSD0243
SWSD0244-081821	10575529017	765486	IS3	SWSD0247-082021	SWSD0244
SWSD0245-081821	10575529018	765486	IS2-N	SWSD0247-082021	SWSD0245
SWSD0246-081821	10575529019	765486	IS2-D	SWSD0247-082021	SWSD0246
SWSD0247-082021	10575529020	765486	FB	SWSD0247-082021	SWSD0247
SWSD0249-081821	10575529022	765486	AS	SWSD0247-082021	SWSD0249
SWSD0250-081821	10575529023	765486	AS	SWSD0247-082021	SWSD0250
SWSD0251-081821	10575529024	Insufficient volume for Hg analysis			
SWSD0252-082021	10575529025	Insufficient volume for dissolved Hg analysis			

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0253-082021	10575529026	765486	IS2	SWSD0247-082021	SWSD0253
SWSD0254-082021	10575529027	765486	AS	SWSD0247-082021	SWSD0254
SWSD0255-082021	10575529028	Insufficient volume for Hg analysis			
Total Mercury					
SWSD0228-081821	10575529001	765487	IS7	SWSD0240-082021	SWSD0228
SWSD0229-081821	10575529002	765487	IS6	SWSD0240-082021	SWSD0229
SWSD0230-081821	10575529003	765487	IS5	SWSD0240-082021	SWSD0230
SWSD0231-081821	10575529004	765487	IS4	SWSD0240-082021	SWSD0231
SWSD0232-081821	10575529005	765487	IS2	SWSD0240-082021	SWSD0232
SWSD0233-081821	10575529006	765487	IS1	SWSD0240-082021	SWSD0233
SWSD0234-081821	10575529007	Insufficient volume for Hg analysis			
SWSD0235-081821	10575529008	765487	IS1	SWSD0240-082021	SWSD0235
SWSD0236-081821	10575529009	765487	IS1	SWSD0240-082021	SWSD0236
SWSD0237-081821	10575529010	765487	IS7	SWSD0240-082021	SWSD0237
SWSD0238-081821	10575529011	765487	IS6-N	SWSD0240-082021	SWSD0238
SWSD0239-081821	10575529012	765487	IS6-D	SWSD0240-082021	SWSD0239
SWSD0240-082021	10575529013	765487	FB	SWSD0240-082021	SWSD0240
SWSD0241-081821	10575529014	765487	IS6	SWSD0247-082021	SWSD0241
SWSD0242-081821	10575529015	765487	IS5	SWSD0247-082021	SWSD0242
SWSD0243-081821	10575529016	765487	IS4	SWSD0247-082021	SWSD0243
SWSD0244-081821	10575529017	765488	IS3	SWSD0247-082021	SWSD0244
SWSD0245-081821	10575529018	765488	IS2-N	SWSD0247-082021	SWSD0245
SWSD0246-081821	10575529019	765488	IS2-D	SWSD0247-082021	SWSD0246
SWSD0247-082021	10575529020	765488	FB	SWSD0247-082021	SWSD0247
SWSD0249-081821	10575529022	765488	AS	SWSD0247-082021	SWSD0249
SWSD0250-081821	10575529023	765488	AS	SWSD0247-082021	SWSD0250
SWSD0251-081821	10575529024	Insufficient volume for Hg analysis			
SWSD0252-082021	10575529025	765488	IS3	SWSD0247-082021	SWSD0252
SWSD0253-082021	10575529026	765488	IS2	SWSD0247-082021	SWSD0253

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0254-082021	10575529027	765488	AS	SWSD0247-082021	SWSD0254
SWSD0255-082021	10575529028	Insufficient volume for Hg analysis			

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	08/18/2021, 08/20/2021	08/25/2021	No
Total Mercury	Aqueous	EPA 245.1	08/18/2021, 08/20/2021	08/25/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___
Were MB results non-detects? Y_X_ N___
Were any data flagged because of blank problems? Y___ N_X_
Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___
Was LCS within control window of 85-115% recovery? Y_X_ N___
Were any data flagged because of LCS problems? Y___ N_X_
Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ? Y_X_ N___

Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ? Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___
Were any data flagged because of MS/MSD recovery problems? Y___ N_X_
Were any data flagged because of MS/MSD RPD problems? Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_
Samples SWSD0234, SWSD0251, SWSD0255 had insufficient volume for total and dissolved mercury analysis. Sample SWSD0252 had insufficient volume for dissolved mercury analysis. The volume of sample SWSD0248 was insufficient for any analysis.

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575529
Matrix:	Aqueous	**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	08/18/2021, 08/20/2021	**Analysis Date(s):**	08/26/2021, 8/30/21, 08/26/2021, 08/27/2021,
Data Validator:	Nadia Reed	**Validation Date:**	11/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWSD0228-081821	10575529001	765478	IS7	SWSD0240-082021	SWSD0228
SWSD0229-081821	10575529002	765478	IS6	SWSD0240-082021	SWSD0229
SWSD0230-081821	10575529003	765478	IS5	SWSD0240-082021	SWSD0230
SWSD0231-081821	10575529004	765478	IS4	SWSD0240-082021	SWSD0231
SWSD0232-081821	10575529005	765478	IS2	SWSD0240-082021	SWSD0232
SWSD0233-081821	10575529006	765478	IS1	SWSD0240-082021	SWSD0233
SWSD0234-081821	10575529007	Insufficient volume for dissolved metals analysis			
SWSD0235-081821	10575529008	765478	IS1	SWSD0240-082021	SWSD0235
SWSD0236-081821	10575529009	765478	IS1	SWSD0240-082021	SWSD0236
SWSD0237-081821	10575529010	765478	IS7	SWSD0240-082021	SWSD0237
SWSD0238-081821	10575529011	765478	IS6-N	SWSD0240-082021	SWSD0238
SWSD0239-081821	10575529012	765478	IS6-D	SWSD0240-082021	SWSD0239
SWSD0240-082021	10575529013	765478	FB	SWSD0240-082021	SWSD0240
SWSD0241-081821	10575529014	765478	IS6	SWSD0247-082021	SWSD0241
SWSD0242-081821	10575529015	765478	IS5	SWSD0247-082021	SWSD0242
SWSD0243-081821	10575529016	765478	IS4	SWSD0247-082021	SWSD0243
SWSD0244-081821	10575529017	765481	IS3	SWSD0247-082021	SWSD0244
SWSD0245-081821	10575529018	765481	IS2-N	SWSD0247-082021	SWSD0245
SWSD0246-081821	10575529019	765481	IS2-D	SWSD0247-082021	SWSD0246
SWSD0247-082021	10575529020	765481	FB	SWSD0247-082021	SWSD0247
SWSD0249-081821	10575529022	765481	AS	SWSD0247-082021	SWSD0249

SWSD0250-081821	10575529023	765481	AS	SWSD0247-082021	SWSD0250
SWSD0251-081821	10575529024	Insufficient volume for dissolved metals analysis			
SWSD0252-082021	10575529025	Insufficient volume for dissolved metals analysis			
SWSD0253-082021	10575529026	765481	IS2	SWSD0247-082021	SWSD0253
SWSD0254-082021	10575529027	765481	AS	SWSD0247-082021	SWSD0254
SWSD0255-082021	10575529028	Insufficient volume for dissolved metals analysis			
Total Metals					
SWSD0228-081821	10575529001	765483	IS7	SWSD0240-082021	SWSD0228
SWSD0229-081821	10575529002	765483	IS6	SWSD0240-082021	SWSD0229
SWSD0230-081821	10575529003	765483	IS5	SWSD0240-082021	SWSD0230
SWSD0231-081821	10575529004	765483	IS4	SWSD0240-082021	SWSD0231
SWSD0232-081821	10575529005	765483	IS2	SWSD0240-082021	SWSD0232
SWSD0233-081821	10575529006	765483	IS1	SWSD0240-082021	SWSD0233
SWSD0234-081821	10575529007	765483	IS2	SWSD0240-082021	SWSD0234
SWSD0235-081821	10575529008	765483	IS1	SWSD0240-082021	SWSD0235
SWSD0236-081821	10575529009	765483	IS1	SWSD0240-082021	SWSD0236
SWSD0237-081821	10575529010	765483	IS7	SWSD0240-082021	SWSD0237
SWSD0238-081821	10575529011	765483	IS6-N	SWSD0240-082021	SWSD0238
SWSD0239-081821	10575529012	765483	IS6-D	SWSD0240-082021	SWSD0239
SWSD0240-082021	10575529013	765483	FB	SWSD0240-082021	SWSD0240
SWSD0241-081821	10575529014	765483	IS6	SWSD0247-082021	SWSD0241
SWSD0242-081821	10575529015	765483	IS5	SWSD0247-082021	SWSD0242
SWSD0243-081821	10575529016	765483	IS4	SWSD0247-082021	SWSD0243
SWSD0244-081821	10575529017	765484	IS3	SWSD0247-082021	SWSD0244
SWSD0245-081821	10575529018	765484	IS2-N	SWSD0247-082021	SWSD0245
SWSD0246-081821	10575529019	765484	IS2-D	SWSD0247-082021	SWSD0246
SWSD0247-082021	10575529020	766686	FB	SWSD0247-082021	SWSD0247
SWSD0249-081821	10575529022	765484	AS	SWSD0247-082021	SWSD0249
SWSD0250-081821	10575529023	765484	AS	SWSD0247-082021	SWSD0250
SWSD0251-081821	10575529024	765484	AS	SWSD0247-082021	SWSD0251
SWSD0252-082021	10575529025	765484	IS3	SWSD0247-082021	SWSD0252
SWSD0253-082021	10575529026	765484	IS2	SWSD0247-082021	SWSD0253
SWSD0254-082021	10575529027	765484	AS	SWSD0247-082021	SWSD0254

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0255-082021	10575529028	765484	AS	SWSD0247-082021	SWSD0255

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	08/18/2021, 08/20/2021	08/26/2021, 8/30/21	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	08/18/2021, 08/20/2021	08/26/2021, 08/27/2021, 08/30/2021, 09/01/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

***QC Batch 765483**, FeTR and ZnTR were detected in MB 4080175 at concentrations >RL. Associated FeTR and ZnTR sample results were >10X the MB detection or non-detect; thus, no qualifiers were applied.*

***QC Batch 765483**, PbTR was detected in MB 4080175 at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*

***QC batch 765484**, PbTR was detected in MB 4080180 at a concentration >1.5X the MDL. Associated PbTR results were >10X the MB detection; thus, no qualifiers were applied.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y___ N_X_

Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

***QC Batch 765483**, MS 4080179 PbTR recovery >130%. The parent sample for the MS, SWSD0238, was collected from the same drainage as samples SWSD0237 and SWSD0239. The remaining samples in this QC batch were collected from different drainages and considerd to be of dissimilar matrices to the parent sample. Therefore, PbTR results in only SWSD0237-SWSD0239 were qualified based on the high MS recovery. PbTR results for SWSF0237-SWSD0239 were ≥ MDL and qualified J+.*

***QC Batch 765483**, MS 4080179 CuTR, FeTR, and ZnTR recovery >130%. Parent sample concentrations ≥4X the spike concentrations thus, recovery criteria were waived.*

***QC Batch 765484**, MSD 4080183 CuTR and FeTR recoveries >130%. The parent sample concentrations were >4X the spike concentrations, so recovery criteria were waived.*

***QC Batch 766686**, a matrix spike/matrix spike duplicate was not performed for this QC batch. A laboratory control duplicate sample satisfied the duplicate requirement. The only sample in this QC batch was the field blank, and field blanks are not assessed for matrix interference. Therefore, no qualifiers were applied for the ommision of an MS sample.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

Samples SWSD0234, SWSD0251, SWSD0252, and SWSD0255 had insufficient volume for dissolved metals analysis. The volume of sample SWSD0248 was insufficient for any analysis.

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575529
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	08/18/2021, 08/20/2021	**Analysis Date(s):**	08/24/2021, 08/25/2021
Data Validator:	Nadia Reed	**Validation Date:**	11/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0228-081821	10575529001	765401	IS7	SWSD0240-082021	SWSD0228
SWSD0229-081821	10575529002	765401	IS6	SWSD0240-082021	SWSD0229
SWSD0230-081821	10575529003	765401	IS5	SWSD0240-082021	SWSD0230
SWSD0231-081821	10575529004	765401	IS4	SWSD0240-082021	SWSD0231
SWSD0232-081821	10575529005	765401	IS2	SWSD0240-082021	SWSD0232
SWSD0233-081821	10575529006	765401	IS1	SWSD0240-082021	SWSD0233
SWSD0234-081821	10575529007	Insufficient volume for TSS analysis			
SWSD0235-081821	10575529008	765401	IS1	SWSD0240-082021	SWSD0235
SWSD0236-081821	10575529009	765401	IS1	SWSD0240-082021	SWSD0236
SWSD0237-081821	10575529010	765401	IS7	SWSD0240-082021	SWSD0237
SWSD0238-081821	10575529011	765401	IS6-N	SWSD0240-082021	SWSD0238
SWSD0239-081821	10575529012	765401	IS6-D	SWSD0240-082021	SWSD0239
SWSD0240-082021	10575529013	765773	FB	SWSD0240-082021	SWSD0240
SWSD0241-081821	10575529014	765401	IS6	SWSD0247-082021	SWSD0241
SWSD0242-081821	10575529015	765401	IS5	SWSD0247-082021	SWSD0242
SWSD0243-081821	10575529016	765401	IS4	SWSD0247-082021	SWSD0243
SWSD0244-081821	10575529017	Insufficient volume for TSS analysis			
SWSD0245-081821	10575529018	765401	IS2-N	SWSD0247-082021	SWSD0245
SWSD0246-081821	10575529019	765401	IS2-D	SWSD0247-082021	SWSD0246
SWSD0247-082021	10575529020	765773	FB	SWSD0247-082021	SWSD0247
SWSD0249-081821	10575529022	765401	AS	SWSD0247-082021	SWSD0249

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

SWSD0250-081821	10575529023	Insufficient volume for TSS analysis			
SWSD0251-081821	10575529024	Insufficient volume for TSS analysis			
SWSD0252-082021	10575529025	Insufficient volume for TSS analysis			
SWSD0253-082021	10575529026	765773	IS2	SWSD0247-082021	SWSD0253
SWSD0254-082021	10575529027	765773	AS	SWSD0247-082021	SWSD0254
SWSD0255-082021	10575529028	Insufficient volume for TSS analysis			

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	08/18/2021, 08/20/2021	08/24/2021, 08/25/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y____ N_____ NA_X

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples? Y_X_ N___

For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y___ N_X_

Were any data flagged because of LDS problems? Y_X_ N___

Describe corrective actions taken because of LDS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

***QC Batch 765401** , LDS 4079716 RPD >10% and both original and duplicate sample results ≥ 5X. Associated TSS sample results SWSD0228-SWSD0233, SWSD0235-SWSD0239, SWSD0241-SWSD0243, SWSD0245,SWSD0246, and SWSD0249 ≥ MDL therefore qualified J. Since TSS analysis is not prone to chemical interference, matrix similarity is not a consideration in qualifying TSS results.*

***QC Batch 765773** , LDS 4081280 RPD >10%. Parent sample 10575582001 was not project associated so sample integrity (collection and handling method, reliability of result) is unknown. Therefore, no TSS results were qualified based on this laboratory duplicate.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

Samples SWSD0234, SWSD0244, SWSD0250, SWSD0251, SWSD0252, and SWSD0255 had insufficient volume for TSS analysis. The volume of sample SWSD0248 was insufficient for any analysis.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575529
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	08/18/2021, 08/20/2021	**Analysis Date(s):**	09/02/2021
Data Validator:	Nadia Reed	**Validation Date:**	11/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0228-081821	10575529001	767233	IS7	SWSD0240-082021	SWSD0228
SWSD0229-081821	10575529002	767233	IS6	SWSD0240-082021	SWSD0229
SWSD0230-081821	10575529003	767233	IS5	SWSD0240-082021	SWSD0230
SWSD0231-081821	10575529004	767233	IS4	SWSD0240-082021	SWSD0231
SWSD0232-081821	10575529005	767233	IS2	SWSD0240-082021	SWSD0232
SWSD0233-081821	10575529006	767233	IS1	SWSD0240-082021	SWSD0233
SWSD0234-081821	10575529007	Insufficient volume for sulfate analysis			
SWSD0235-081821	10575529008	767233	IS1	SWSD0240-082021	SWSD0235
SWSD0236-081821	10575529009	767233	IS1	SWSD0240-082021	SWSD0236
SWSD0237-081821	10575529010	767233	IS7	SWSD0240-082021	SWSD0237
SWSD0238-081821	10575529011	767233	IS6-N	SWSD0240-082021	SWSD0238
SWSD0239-081821	10575529012	767233	IS6-D	SWSD0240-082021	SWSD0239
SWSD0240-082021	10575529013	767233	FB	SWSD0240-082021	SWSD0240
SWSD0241-081821	10575529014	767233	IS6	SWSD0247-082021	SWSD0241
SWSD0242-081821	10575529015	767233	IS5	SWSD0247-082021	SWSD0242
SWSD0243-081821	10575529016	767233	IS4	SWSD0247-082021	SWSD0243
SWSD0244-081821	10575529017	Insufficient volume for sulfate analysis			
SWSD0245-081821	10575529018	767233	IS2-N	SWSD0247-082021	SWSD0245
SWSD0246-081821	10575529019	767233	IS2-D	SWSD0247-082021	SWSD0246
SWSD0247-082021	10575529020	767234	FB	SWSD0247-082021	SWSD0247
SWSD0249-081821	10575529022	767234	AS	SWSD0247-082021	SWSD0249

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWSD0250-081821	10575529023	Insufficient volume for sulfate analysis			
SWSD0251-081821	10575529024	Insufficient volume for sulfate analysis			
SWSD0252-082021	10575529025	Insufficient volume for sulfate analysis			
SWSD0253-082021	10575529026	767234	IS2	SWSD0247-082021	SWSD0253
SWSD0254-082021	10575529027	767234	AS	SWSD0247-082021	SWSD0254
SWSD0255-082021	10575529028	Insufficient volume for sulfate analysis			

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	08/18/2021, 08/20/2021	09/02/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were the LCS/LCSD within control window of 80-120% recovery? Y_X_ N___

Was the LCS/LCSD ≤ 20% relative percent difference (RPD)? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ? Y_X_ N___

Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration? Y___ N_X_

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL? Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y_X_ N___

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

***QC Batch 767233** , MS 4088533 MSD 4088534 SO4 recoveries <80%. Parent sample 10575368026 was not project associated so matrix similiarity cannot be determined. Therefore, no sulfate results were qualified based on these MS/MSD recoveries.*

***QC Batch 767233** , MS 4088535 MSD 4088536 SO4 recoveries >120%. The parent sample for this MS/MSD, SWSD0230, was collected from the same drainage as samples SWSD0228, SWSD0229 and SWSD0231. The remaining samples in this QC batch were collected from different drainages and considered to be of differing matrices. Therefore, sulfate results in only SWSD0228-SWSD0231 were qualified. Sulfate results for SWSD0228-SWSD0231 were ≥ MDL and qualified J+.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

Samples SWSD0234, SWSD0244, SWSD0250, SWSD0251, SWSD0252, and SWSD0255 had insufficient volume for sulfate analysis. The volume of sample SWSD0248 was insufficient for any analysis.

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10575529
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	08/18/2021, 08/20/2021		
Data Validator:	Nadia Reed	**Validation Date:**	11/5/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0228-081821	10575529001	IS7	SWSD0240-082021	SWSD0228
SWSD0229-081821	10575529002	IS6	SWSD0240-082021	SWSD0229
SWSD0230-081821	10575529003	IS5	SWSD0240-082021	SWSD0230
SWSD0231-081821	10575529004	IS4	SWSD0240-082021	SWSD0231
SWSD0232-081821	10575529005	IS2	SWSD0240-082021	SWSD0232
SWSD0233-081821	10575529006	IS1	SWSD0240-082021	SWSD0233
SWSD0234-081821	10575529007	IS2	SWSD0240-082021	SWSD0234
SWSD0235-081821	10575529008	IS1	SWSD0240-082021	SWSD0235
SWSD0236-081821	10575529009	IS1	SWSD0240-082021	SWSD0236
SWSD0237-081821	10575529010	IS7	SWSD0240-082021	SWSD0237
SWSD0238-081821	10575529011	IS6-N	SWSD0240-082021	SWSD0238
SWSD0239-081821	10575529012	IS6-D	SWSD0240-082021	SWSD0239
SWSD0240-082021	10575529013	FB	SWSD0240-082021	SWSD0240
SWSD0241-081821	10575529014	IS6	SWSD0247-082021	SWSD0241
SWSD0242-081821	10575529015	IS5	SWSD0247-082021	SWSD0242
SWSD0243-081821	10575529016	IS4	SWSD0247-082021	SWSD0243
SWSD0244-081821	10575529017	IS3	SWSD0247-082021	SWSD0244
SWSD0245-081821	10575529018	IS2-N	SWSD0247-082021	SWSD0245
SWSD0246-081821	10575529019	IS2-D	SWSD0247-082021	SWSD0246

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWSD0247-082021	10575529020	FB	SWSD0247-082021	SWSD0247
SWSD0249-081821	10575529022	AS	SWSD0247-082021	SWSD0249
SWSD0250-081821	10575529023	AS	SWSD0247-082021	SWSD0250
SWSD0251-081821	10575529024	AS	SWSD0247-082021	SWSD0251
SWSD0252-082021	10575529025	IS3	SWSD0247-082021	SWSD0252
SWSD0253-082021	10575529026	IS2	SWSD0247-082021	SWSD0253
SWSD0254-082021	10575529027	AS	SWSD0247-082021	SWSD0254
SWSD0255-082021	10575529028	AS	SWSD0247-082021	SWSD0255

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	08/18/2021, 08/20/2021	08/25/2021
Total Mercury	Aqueous	EPA 245.1	08/18/2021, 08/20/2021	08/25/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	08/18/2021, 08/20/2021	08/26/2021, 8/30/21
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	08/18/2021, 08/20/2021	08/26/2021, 08/27/2021, 08/30/2021, 09/01/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	08/18/2021, 08/20/2021	08/24/2021, 08/25/2021
Sulfate (SO4)	Aqueous	ASTM D516	08/18/2021, 08/20/2021	09/02/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

Were any data qualified because of FB problems? Y___ N_X_

PbTR was detected in FB SWSD0240 at a concentration >1.5X MDL. Associated PbTR results for SWSD0228-SWSD0239 were >10X the FB detection, therefore no PbTR results were qualified.

PbTR was detected in FB SWSD0247 at a concentration >1.5X MDL. Associated PbTR results for SWSD0241-SWSD0246 and SWSD0249-SWSD055 were >10X the FB detection, therefore no PbTR results were qualified.

CuTR was detected in FB SWSD0247 at a concentration <1.5X MDL thus, was not further assessed per TREC data validation guidelines.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Were results for FDs within the target control limits in the BPSOU SW QAPP? Y_X_ N___ Were any data qualified because of FD results? Y___ N_X_ *Field duplicate set SWSD0238/SWSD0239 had >20% RPD for HgTR results. However, both the natural and duplicate HgTR results were <5X the RL, and the difference between the results was < the RL. Therefore no HgTR results were qualified.*
Additional Comments

DATA VALIDATION SUMMARY FOR SDG 10576049

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576049
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	8/21/2021, 8/25/2021	**Analysis Date(s):**	8/27/2021, 8/312021, 9/1/2021-9/3/2021, 9/7/2021, 9/8/2021
Data Validator:	Michele Bay	**Validation Date:**	10/20/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/21/2021, 8/25/2021	9/1/2021
Total Mercury	Aqueous	EPA 245.1	8/21/2021, 8/25/2021	9/7/2021, 9/8/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/21/2021, 8/25/2021	9/2/2021, 9/3/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/21/2021, 8/25/2021	9/1/2021, 9/2/2021, 9/7/2021, 9/8/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/21/2021, 8/25/2021	8/27/2021, 8/31/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/21/2021, 8/25/2021	9/2/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	524	460	435	25	0
Percentage		88%	95%	5%	0%

Analyses of this sample set resulted with 460 natural data points. Of these, 435 (95%) had no quality control deficiencies and are defined as enforcement quality while, 25 (5%) had quality control deficiencies and are defined as screening quality. Of the 25 qualified data points; 15 were coded "MS" due to laboratory accuracy criteria not being met, two were coded "FB" due to field accuracy criteria not being met, and eight were coded "FD" due to field precision criteria not being met. Of the 480 anticipated data points, only 460 were collected thus, completeness for this data set is 96%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576049
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	8/21/2021, 8/25/2021	**Analysis Date(s):**	9/1/2021, 9/7/2021, 9/8/2021
Data Validator:	Michele Bay	**Validation Date:**	10/20/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0256-082121	10576049001	766484	IS5	SWSD0272-082521	SWSD0256
SWSD0257-082121	10576049002	766484	IS4	SWSD0272-082521	SWSD0257
SWSD0258-082121	10576049003	766484	IS3	SWSD0272-082521	SWSD0258
SWSD0259-082121	10576049004	766484	IS2	SWSD0272-082521	SWSD0259
SWSD0260-082121	10576049005	766484	IS1	SWSD0272-082521	SWSD0260
SWSD0261-082121	10576049006	766484	IS3	SWSD0272-082521	SWSD0261
SWSD0262-082121	10576049007	766484	IS2	SWSD0272-082521	SWSD0262
SWSD0263-082121	10576049008	766484	IS1	SWSD0272-082521	SWSD0263
SWSD0264-082121	10576049009	766484	IS1	SWSD0272-082521	SWSD0264
SWSD0265-082121	10576049010	766484	IS6	SWSD0272-082521	SWSD0265
SWSD0266-082121	10576049011	766484	IS5	SWSD0272-082521	SWSD0266
SWSD0267-082121	10576049012	766484	IS4	SWSD0272-082521	SWSD0267
SWSD0268-082121	10576049013	766484	IS3	SWSD0272-082521	SWSD0268
SWSD0269-082121	10576049014	766484	IS2	SWSD0272-082521	SWSD0269
SWSD0270-082121	10576049015	766484	IS1-N	SWSD0272-082521	SWSD0270
SWSD0271-082121	10576049016	766484	IS1-D	SWSD0272-082521	SWSD0271
SWSD0272-082521	10576049017	766484	FB	SWSD0272-082521	SWSD0272
SWSD0273-082121	10576049018	766484	IS4	SWSD0286-082521	SWSD0273
SWSD0274-082121	10576049019	766484	IS3	SWSD0286-082521	SWSD0274
SWSD0275-082121	10576049020	766484	IS2	SWSD0286-082521	SWSD0275

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0276-082121	10576049021	766485	IS1	SWSD0286-082521	SWSD0276
SWSD0277-082121	10576049022	766485	IS8	SWSD0286-082521	SWSD0277
SWSD0278-082121	10576049023	766485	IS7	SWSD0286-082521	SWSD0278
SWSD0279-082121	10576049024	766485	IS6	SWSD0286-082521	SWSD0279
SWSD0280-082121	10576049025	766485	IS5	SWSD0286-082521	SWSD0280
SWSD0281-082121	10576049026	766485	IS4	SWSD0286-082521	SWSD0281
SWSD0282-082121	10576049027	766485	IS3	SWSD0286-082521	SWSD0282
SWSD0283-082121	10576049028	766485	IS2	SWSD0286-082521	SWSD0283
SWSD0284-082121	10576049029	766485	IS1-N	SWSD0286-082521	SWSD0284
SWSD0285-082121	10576049030	766485	IS1-D	SWSD0286-082521	SWSD0285
SWSD0286-082521	10576049031	766485	FB	SWSD0286-082521	SWSD0286
SWSD0287-082121	10576049032	No HgDis analysis	AS	SWSD0286-082522	SWSD0287
SWSD0288-082121	10576049033	766485	AS	SWSD0286-082523	SWSD0288
SWSD0289-082121	10576049034	No HgDis analysis	AS	SWSD0286-082524	SWSD0289
Total Mercury					
SWSD0256-082121	10576049001	766489	IS5	SWSD0272-082521	SWSD0256
SWSD0257-082121	10576049002	766489	IS4	SWSD0272-082521	SWSD0257
SWSD0258-082121	10576049003	766489	IS3	SWSD0272-082521	SWSD0258
SWSD0259-082121	10576049004	766489	IS2	SWSD0272-082521	SWSD0259
SWSD0260-082121	10576049005	766489	IS1	SWSD0272-082521	SWSD0260
SWSD0261-082121	10576049006	766489	IS3	SWSD0272-082521	SWSD0261
SWSD0262-082121	10576049007	766489	IS2	SWSD0272-082521	SWSD0262
SWSD0263-082121	10576049008	766489	IS1	SWSD0272-082521	SWSD0263
SWSD0264-082121	10576049009	766489	IS1	SWSD0272-082521	SWSD0264
SWSD0265-082121	10576049010	766489	IS6	SWSD0272-082521	SWSD0265
SWSD0266-082121	10576049011	766489	IS5	SWSD0272-082521	SWSD0266
SWSD0267-082121	10576049012	766489	IS4	SWSD0272-082521	SWSD0267
SWSD0268-082121	10576049013	766489	IS3	SWSD0272-082521	SWSD0268
SWSD0269-082121	10576049014	766489	IS2	SWSD0272-082521	SWSD0269
SWSD0270-082121	10576049015	766489	IS1-N	SWSD0272-082521	SWSD0270
SWSD0271-082121	10576049016	766489	IS1-D	SWSD0272-082521	SWSD0271
SWSD0272-082521	10576049017	766489	FB	SWSD0272-082521	SWSD0272
SWSD0273-082121	10576049018	766489	IS4	SWSD0286-082521	SWSD0273

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

SWSD0274-082121	10576049019	766489	IS3	SWSD0286-082521	SWSD0274
SWSD0275-082121	10576049020	766489	IS2	SWSD0286-082521	SWSD0275
SWSD0276-082121	10576049021	766491	IS1	SWSD0286-082521	SWSD0276
SWSD0277-082121	10576049022	766491	IS8	SWSD0286-082521	SWSD0277
SWSD0278-082121	10576049023	766491	IS7	SWSD0286-082521	SWSD0278
SWSD0279-082121	10576049024	766491	IS6	SWSD0286-082521	SWSD0279
SWSD0280-082121	10576049025	766491	IS5	SWSD0286-082521	SWSD0280
SWSD0281-082121	10576049026	766491	IS4	SWSD0286-082521	SWSD0281
SWSD0282-082121	10576049027	766491	IS3	SWSD0286-082521	SWSD0282
SWSD0283-082121	10576049028	766491	IS2	SWSD0286-082521	SWSD0283
SWSD0284-082121	10576049029	766491	IS1-N	SWSD0286-082521	SWSD0284
SWSD0285-082121	10576049030	766491	IS1-D	SWSD0286-082521	SWSD0285
SWSD0286-082521	10576049031	766491	FB	SWSD0286-082521	SWSD0286
SWSD0287-082121	10576049032	766491	AS	SWSD0286-082522	SWSD0287
SWSD0288-082121	10576049033	766491	AS	SWSD0286-082523	SWSD0288
SWSD0289-082121	10576049034	766491	AS	SWSD0286-082524	SWSD0289

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	8/21/2021, 8/25/2021	9/1/2021	No
Total Mercury	Aqueous	EPA 245.1	8/21/2021, 8/25/2021	9/7/2021, 9/8/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	

Are there any additional analytical limitations that users should be aware of?	Y_X_ N___
Samples SWSD0287 and SWSD0289 were not analyzed for HgDis.	

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)					
Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)					
Site:	Butte Priority Soils Operable Unit		**Project:**	BPSOU SW Monitoring - 0231347.0124	
Laboratory:	Pace Analytical Services (Minneapolis, MN)		**WO Number:**	10576049	
Matrix:	Aqueous		**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn	
Sample Date(s):	8/21/2021, 8/25/2021		**Analysis Date(s):**	9/1/2021-9/3/2021, 9/7/2021, 9/8/2021	
Data Validator:	Michele Bay		**Validation Date:**	10/20/2021	
Sample Delivery Group					
Field Sample ID	**Lab Sample ID**	**Lab QC Batch**	**Sample Type**	**Associated Fld QC**	**Abbreviated Field ID**
Dissolved Metals					
SWSD0256-082121	10576049001	766495	IS5	SWSD0272-082521	SWSD0256
SWSD0257-082121	10576049002	766495	IS4	SWSD0272-082521	SWSD0257
SWSD0258-082121	10576049003	766495	IS3	SWSD0272-082521	SWSD0258
SWSD0259-082121	10576049004	766495	IS2	SWSD0272-082521	SWSD0259
SWSD0260-082121	10576049005	766495	IS1	SWSD0272-082521	SWSD0260
SWSD0261-082121	10576049006	766495	IS3	SWSD0272-082521	SWSD0261
SWSD0262-082121	10576049007	766495	IS2	SWSD0272-082521	SWSD0262
SWSD0263-082121	10576049008	766495	IS1	SWSD0272-082521	SWSD0263
SWSD0264-082121	10576049009	766495	IS1	SWSD0272-082521	SWSD0264
SWSD0265-082121	10576049010	766495	IS6	SWSD0272-082521	SWSD0265
SWSD0266-082121	10576049011	766495	IS5	SWSD0272-082521	SWSD0266
SWSD0267-082121	10576049012	766495	IS4	SWSD0272-082521	SWSD0267
SWSD0268-082121	10576049013	766495	IS3	SWSD0272-082521	SWSD0268
SWSD0269-082121	10576049014	766495	IS2	SWSD0272-082521	SWSD0269
SWSD0270-082121	10576049015	766495	IS1-N	SWSD0272-082521	SWSD0270
SWSD0271-082121	10576049016	766495	IS1-D	SWSD0272-082521	SWSD0271
SWSD0272-082521	10576049017	766495	FB	SWSD0272-082521	SWSD0272
SWSD0273-082121	10576049018	766495	IS4	SWSD0286-082521	SWSD0273
SWSD0274-082121	10576049019	766495	IS3	SWSD0286-082521	SWSD0274
SWSD0275-082121	10576049020	766495	IS2	SWSD0286-082521	SWSD0275
SWSD0276-082121	10576049021	766500	IS1	SWSD0286-082521	SWSD0276
SWSD0277-082121	10576049022	766500	IS8	SWSD0286-082521	SWSD0277
SWSD0278-082121	10576049023	766500	IS7	SWSD0286-082521	SWSD0278

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0279-082121	10576049024	766500	IS6	SWSD0286-082521	SWSD0279
SWSD0280-082121	10576049025	766500	IS5	SWSD0286-082521	SWSD0280
SWSD0281-082121	10576049026	766500	IS4	SWSD0286-082521	SWSD0281
SWSD0282-082121	10576049027	766500	IS3	SWSD0286-082521	SWSD0282
SWSD0283-082121	10576049028	766500	IS2	SWSD0286-082521	SWSD0283
SWSD0284-082121	10576049029	766500	IS1-N	SWSD0286-082521	SWSD0284
SWSD0285-082121	10576049030	766500	IS1-D	SWSD0286-082521	SWSD0285
SWSD0286-082521	10576049031	766500	FB	SWSD0286-082521	SWSD0286
SWSD0287-082121	10576049032	No dissolved metals analy	AS	SWSD0286-082522	SWSD0287
SWSD0288-082121	10576049033	766500	AS	SWSD0286-082523	SWSD0288
SWSD0289-082121	10576049034	No dissolved metals analy	AS	SWSD0286-082524	SWSD0289
Total Metals					
SWSD0256-082121	10576049001	766503	IS5	SWSD0272-082521	SWSD0256
SWSD0257-082121	10576049002	766503	IS4	SWSD0272-082521	SWSD0257
SWSD0258-082121	10576049003	766503	IS3	SWSD0272-082521	SWSD0258
SWSD0259-082121	10576049004	766503	IS2	SWSD0272-082521	SWSD0259
SWSD0260-082121	10576049005	766503	IS1	SWSD0272-082521	SWSD0260
SWSD0261-082121	10576049006	766503	IS3	SWSD0272-082521	SWSD0261
SWSD0262-082121	10576049007	766503	IS2	SWSD0272-082521	SWSD0262
SWSD0263-082121	10576049008	766503	IS1	SWSD0272-082521	SWSD0263
SWSD0264-082121	10576049009	766503	IS1	SWSD0272-082521	SWSD0264
SWSD0265-082121	10576049010	766503	IS6	SWSD0272-082521	SWSD0265
SWSD0266-082121	10576049011	766503	IS5	SWSD0272-082521	SWSD0266
SWSD0267-082121	10576049012	766503	IS4	SWSD0272-082521	SWSD0267
SWSD0268-082121	10576049013	766503	IS3	SWSD0272-082521	SWSD0268
SWSD0269-082121	10576049014	766503	IS2	SWSD0272-082521	SWSD0269
SWSD0270-082121	10576049015	766503	IS1-N	SWSD0272-082521	SWSD0270
SWSD0271-082121	10576049016	766503	IS1-D	SWSD0272-082521	SWSD0271
SWSD0272-082521	10576049017	768143	FB	SWSD0272-082521	SWSD0272
SWSD0273-082121	10576049018	766503	IS4	SWSD0286-082521	SWSD0273
SWSD0274-082121	10576049019	766503	IS3	SWSD0286-082521	SWSD0274
SWSD0275-082121	10576049020	766503	IS2	SWSD0286-082521	SWSD0275
SWSD0276-082121	10576049021	766505	IS1	SWSD0286-082521	SWSD0276
SWSD0277-082121	10576049022	766505	IS8	SWSD0286-082521	SWSD0277
SWSD0278-082121	10576049023	766505	IS7	SWSD0286-082521	SWSD0278
SWSD0279-082121	10576049024	766505	IS6	SWSD0286-082521	SWSD0279

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

SWSD0280-082121	10576049025	766505	IS5	SWSD0286-082521	SWSD0280
SWSD0281-082121	10576049026	766505	IS4	SWSD0286-082521	SWSD0281
SWSD0282-082121	10576049027	766505	IS3	SWSD0286-082521	SWSD0282
SWSD0283-082121	10576049028	766505	IS2	SWSD0286-082521	SWSD0283
SWSD0284-082121	10576049029	766505	IS1-N	SWSD0286-082521	SWSD0284
SWSD0285-082121	10576049030	766505	IS1-D	SWSD0286-082521	SWSD0285
SWSD0286-082521	10576049031	766505	FB	SWSD0286-082521	SWSD0286
SWSD0287-082121	10576049032	766505	AS	SWSD0286-082522	SWSD0287
SWSD0288-082121	10576049033	766505	AS	SWSD0286-082523	SWSD0288
SWSD0289-082121	10576049034	766505	AS	SWSD0286-082524	SWSD0289

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/21/2021, 8/25/2021	9/2/2021, 9/3/2021	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/21/2021, 8/25/2021	9/1/2021, 9/2/2021, 9/7/2021, 9/8/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y___ N_X_

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

QC Batch 766503, *ZnTR was detected in MB 4084555 at a conenctration ≥1.5X MDL. Associated ZnTR were >10X the MB detection, so no qualifiers were applied.*

QC Batch 766505, *CdTR and ZnTR were detected in MB 4084565 at concentrations ≤1.5X MDL thus, were not further assessed per TREC data validation guidelines.*

QC Batch 766495, *ZnDis was detected in MB 4084518 at a concentration ≤1.5X MDL, thus was further assessed per TREC data validation guidelines.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples?	Y_X_ N___
Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 766505, *MS 4084567 FeTR recovery >130% MSD 4084568 FeTR and ZnTR recoveries <70%. No associated FeTR sample results were qualified because the parent sample concentration was >4X the spike concentrations. The parent sample for this MSD, SWSD0276 was collected from a different drainage from all other samples in this QC batch and considered to be of a different matrix than the other samples. Therefore, The ZnTR result only for SWSD0276 was qualified. The ZnTR result for SWSD0276 was ≥MDL and qualified J-.*

QC Batch 766505, *MS 4084569 FeTR recovery >130%, MSD 4084570 CuTR and ZnTR recoveries <70%. The parent sample FeTR and ZnTR concentrations were >4X the spike concentrations, so recovery criteria were waived. The parent sample CuTR concentration was <4X the spike concentration. The parent sample for this MSD, SWSD0288 was collected from a different drainage from all other samples in this QC batch and considered to be of a different matrix than the other samples. Therefore, The CuTR result only for SWSD0288 was qualified. The CuTR result for SWSD0288 was ≥MDL and qualified J-.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

SWSD0287 and SWSD0289 were not analyzed for dissolved metals (As, Cd, Cu, Fe, Pb, Zn)

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576049
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	8/21/2021, 8/25/2021	**Analysis Date(s):**	8/27/2021, 8/31/2021
Data Validator:	Michele Bay	**Validation Date:**	10/20/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0256-082121	10576049001	766367	IS5	SWSD0272-082521	SWSD0256
SWSD0257-082121	10576049002	766367	IS4	SWSD0272-082521	SWSD0257
SWSD0258-082121	10576049003	766367	IS3	SWSD0272-082521	SWSD0258
SWSD0259-082121	10576049004	766367	IS2	SWSD0272-082521	SWSD0259
SWSD0260-082121	10576049005	766367	IS1	SWSD0272-082521	SWSD0260
SWSD0261-082121	10576049006	766367	IS3	SWSD0272-082521	SWSD0261
SWSD0262-082121	10576049007	766367	IS2	SWSD0272-082521	SWSD0262
SWSD0263-082121	10576049008	766367	IS1	SWSD0272-082521	SWSD0263
SWSD0264-082121	10576049009	766367	IS1	SWSD0272-082521	SWSD0264
SWSD0265-082121	10576049010	766367	IS6	SWSD0272-082521	SWSD0265
SWSD0266-082121	10576049011	766367	IS5	SWSD0272-082521	SWSD0266
SWSD0267-082121	10576049012	766367	IS4	SWSD0272-082521	SWSD0267
SWSD0268-082121	10576049013	766367	IS3	SWSD0272-082521	SWSD0268
SWSD0269-082121	10576049014	766367	IS2	SWSD0272-082521	SWSD0269
SWSD0270-082121	10576049015	766367	IS1-N	SWSD0272-082521	SWSD0270
SWSD0271-082121	10576049016	766367	IS1-D	SWSD0272-082521	SWSD0271
SWSD0272-082521	10576049017	767291	FB	SWSD0272-082521	SWSD0272
SWSD0273-082121	10576049018	766367	IS4	SWSD0286-082521	SWSD0273
SWSD0274-082121	10576049019	766367	IS3	SWSD0286-082521	SWSD0274
SWSD0275-082121	10576049020	766367	IS2	SWSD0286-082521	SWSD0275
SWSD0276-082121	10576049021	766423	IS1	SWSD0286-082521	SWSD0276

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

SWSD0277-082121	10576049022	766367	IS8	SWSD0286-082521	SWSD0277
SWSD0278-082121	10576049023	766423	IS7	SWSD0286-082521	SWSD0278
SWSD0279-082121	10576049024	766423	IS6	SWSD0286-082521	SWSD0279
SWSD0280-082121	10576049025	766423	IS5	SWSD0286-082521	SWSD0280
SWSD0281-082121	10576049026	766423	IS4	SWSD0286-082521	SWSD0281
SWSD0282-082121	10576049027	766423	IS3	SWSD0286-082521	SWSD0282
SWSD0283-082121	10576049028	766423	IS2	SWSD0286-082521	SWSD0283
SWSD0284-082121	10576049029	766423	IS1-N	SWSD0286-082521	SWSD0284
SWSD0285-082121	10576049030	766423	IS1-D	SWSD0286-082521	SWSD0285
SWSD0286-082521	10576049031	767291	FB	SWSD0286-082521	SWSD0286
SWSD0287-082121	10576049032	No TSS analysis	AS	SWSD0286-082522	SWSD0287
SWSD0288-082121	10576049033	No TSS analysis	AS	SWSD0286-082523	SWSD0288
SWSD0289-082121	10576049034	No TSS analysis	AS	SWSD0286-082524	SWSD0289

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/21/2021, 8/25/2021	8/27/2021, 8/31/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 80-120% recovery? Y_X_ N___

If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL? Y____ N_____ NA_X_

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

4. Duplicate Sample Results	
Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y_X_ N___
Were any data flagged because of LDS problems?	Y___ N_X_
Describe corrective actions taken because of LDS problems.	
Are there any additional analytical limitations that users should be aware of?	Y_X_ N___
Samples SWSD0287-SWSD0289 were not analyzed for TSS	

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576049
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	8/21/2021, 8/25/2021	**Analysis Date(s):**	9/2/2021
Data Validator:	Michele Bay	**Validation Date:**	10/20/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0256-082121	10576049001	767235	IS5	SWSD0272-082521	SWSD0256
SWSD0257-082121	10576049002	767235	IS4	SWSD0272-082521	SWSD0257
SWSD0258-082121	10576049003	767235	IS3	SWSD0272-082521	SWSD0258
SWSD0259-082121	10576049004	767235	IS2	SWSD0272-082521	SWSD0259
SWSD0260-082121	10576049005	767235	IS1	SWSD0272-082521	SWSD0260
SWSD0261-082121	10576049006	767239	IS3	SWSD0272-082521	SWSD0261
SWSD0262-082121	10576049007	767239	IS2	SWSD0272-082521	SWSD0262
SWSD0263-082121	10576049008	767239	IS1	SWSD0272-082521	SWSD0263
SWSD0264-082121	10576049009	767239	IS1	SWSD0272-082521	SWSD0264
SWSD0265-082121	10576049010	767239	IS6	SWSD0272-082521	SWSD0265
SWSD0266-082121	10576049011	767239	IS5	SWSD0272-082521	SWSD0266
SWSD0267-082121	10576049012	767239	IS4	SWSD0272-082521	SWSD0267
SWSD0268-082121	10576049013	767239	IS3	SWSD0272-082521	SWSD0268
SWSD0269-082121	10576049014	767239	IS2	SWSD0272-082521	SWSD0269
SWSD0270-082121	10576049015	767239	IS1-N	SWSD0272-082521	SWSD0270
SWSD0271-082121	10576049016	767239	IS1-D	SWSD0272-082521	SWSD0271
SWSD0272-082521	10576049017	767239	FB	SWSD0272-082521	SWSD0272
SWSD0273-082121	10576049018	767239	IS4	SWSD0286-082521	SWSD0273
SWSD0274-082121	10576049019	767239	IS3	SWSD0286-082521	SWSD0274
SWSD0275-082121	10576049020	767239	IS2	SWSD0286-082521	SWSD0275
SWSD0276-082121	10576049021	767239	IS1	SWSD0286-082521	SWSD0276

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

SWSD0277-082121	10576049022	767239	IS8	SWSD0286-082521	SWSD0277
SWSD0278-082121	10576049023	767239	IS7	SWSD0286-082521	SWSD0278
SWSD0279-082121	10576049024	767239	IS6	SWSD0286-082521	SWSD0279
SWSD0280-082121	10576049025	767239	IS5	SWSD0286-082521	SWSD0280
SWSD0281-082121	10576049026	767242	IS4	SWSD0286-082521	SWSD0281
SWSD0282-082121	10576049027	767242	IS3	SWSD0286-082521	SWSD0282
SWSD0283-082121	10576049028	767242	IS2	SWSD0286-082521	SWSD0283
SWSD0284-082121	10576049029	767242	IS1-N	SWSD0286-082521	SWSD0284
SWSD0285-082121	10576049030	767242	IS1-D	SWSD0286-082521	SWSD0285
SWSD0286-082521	10576049031	767242	FB	SWSD0286-082521	SWSD0286
SWSD0287-082121	10576049032	No SO4 analysis	AS	SWSD0286-082522	SWSD0287
SWSD0288-082121	10576049033	No SO4 analysis	AS	SWSD0286-082523	SWSD0288
SWSD0289-082121	10576049034	No SO4 analysis	AS	SWSD0286-082524	SWSD0289

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	8/21/2021, 8/25/2021	9/2/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were the LCS/LCSD within control window of 80-120% recovery? Y_X_ N___

Was the LCS/LCSD ≤ 20% relative percent difference (RPD)? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of LCS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

***QC Batch 767235** , MS 4088545 SO4 recovery >120%, but the parent sample was not project associated and matrix similarity could not be determined thus, no associated SO4 sample results were qualified.*

***QC Batch 767239** , MS 4088557 SO4 recovery <80%. The parent sample for this MS, SWSD0261, was collected from the same drainage as SWSD0262 and SWSD0263, while other samples in this QC batch were collected from different drainages and considered to be of a differing matrix. Sulfate results for SWSD0261-SWSD0263 were > the MDL and quailfied J-. In the same QC batch, MS 4088559 MSD 4088560 SO4 recoveries >120%. The parent sample for this MS/MSD, SWSD0269, was collected from the same drainage as samples SWSD0265-SWSD0271, while other samples in this QC batch were collected from different drainages and considered to be of a differing matrix. Sulfate results for SWSD0265-SWSD0271 were > the MDL and qualified J+.*

***QC Batch 767242** , MS 4088564 MSD 4088565 SO4 recoveries >120%. Associated sample SWSD0281-SWSD0285 were all collected from the same drainage, sulfate results were ≥MDL, and qualified J+. Sample SWSD0286 was a FB, of a differing matrix than the MS/MSD parent, and not qualified.*

Are there any additional analytical limitations that users should be aware of? Y_X_ N___

Samples SWSD0287-SWSD0289 were not analyzed for SO4.

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10576049
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	8/21/2021, 8/25/2021		
Data Validator:	Michele Bay	**Validation Date:**	10/20/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0256-082121	10576049001	IS5	SWSD0272-082521	SWSD0256
SWSD0257-082121	10576049002	IS4	SWSD0272-082521	SWSD0257
SWSD0258-082121	10576049003	IS3	SWSD0272-082521	SWSD0258
SWSD0259-082121	10576049004	IS2	SWSD0272-082521	SWSD0259
SWSD0260-082121	10576049005	IS1	SWSD0272-082521	SWSD0260
SWSD0261-082121	10576049006	IS3	SWSD0272-082521	SWSD0261
SWSD0262-082121	10576049007	IS2	SWSD0272-082521	SWSD0262
SWSD0263-082121	10576049008	IS1	SWSD0272-082521	SWSD0263
SWSD0264-082121	10576049009	IS1	SWSD0272-082521	SWSD0264
SWSD0265-082121	10576049010	IS6	SWSD0272-082521	SWSD0265
SWSD0266-082121	10576049011	IS5	SWSD0272-082521	SWSD0266
SWSD0267-082121	10576049012	IS4	SWSD0272-082521	SWSD0267
SWSD0268-082121	10576049013	IS3	SWSD0272-082521	SWSD0268
SWSD0269-082121	10576049014	IS2	SWSD0272-082521	SWSD0269
SWSD0270-082121	10576049015	IS1-N	SWSD0272-082521	SWSD0270
SWSD0271-082121	10576049016	IS1-D	SWSD0272-082521	SWSD0271
SWSD0272-082521	10576049017	FB	SWSD0272-082521	SWSD0272
SWSD0273-082121	10576049018	IS4	SWSD0286-082521	SWSD0273
SWSD0274-082121	10576049019	IS3	SWSD0286-082521	SWSD0274

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

SWSD0275-082121	10576049020	IS2	SWSD0286-082521	SWSD0275
SWSD0276-082121	10576049021	IS1	SWSD0286-082521	SWSD0276
SWSD0277-082121	10576049022	IS8	SWSD0286-082521	SWSD0277
SWSD0278-082121	10576049023	IS7	SWSD0286-082521	SWSD0278
SWSD0279-082121	10576049024	IS6	SWSD0286-082521	SWSD0279
SWSD0280-082121	10576049025	IS5	SWSD0286-082521	SWSD0280
SWSD0281-082121	10576049026	IS4	SWSD0286-082521	SWSD0281
SWSD0282-082121	10576049027	IS3	SWSD0286-082521	SWSD0282
SWSD0283-082121	10576049028	IS2	SWSD0286-082521	SWSD0283
SWSD0284-082121	10576049029	IS1-N	SWSD0286-082521	SWSD0284
SWSD0285-082121	10576049030	IS1-D	SWSD0286-082521	SWSD0285
SWSD0286-082521	10576049031	FB	SWSD0286-082521	SWSD0286
SWSD0287-082121	10576049032	AS	SWSD0286-082522	SWSD0287
SWSD0288-082121	10576049033	AS	SWSD0286-082523	SWSD0288
SWSD0289-082121	10576049034	AS	SWSD0286-082524	SWSD0289

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	8/21/2021, 8/25/2021	9/1/2021
Total Mercury	Aqueous	EPA 245.1	8/21/2021, 8/25/2021	9/7/2021, 9/8/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/21/2021, 8/25/2021	9/2/2021, 9/3/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	8/21/2021, 8/25/2021	9/1/2021, 9/2/2021, 9/7/2021, 9/8/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	8/21/2021, 8/25/2021	8/27/2021, 8/31/2021
Sulfate (SO4)	Aqueous	ASTM D516	8/21/2021, 8/25/2021	9/2/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP?	Y_X_ N___
Were results for FBs within the target control limits in the BPSOU SW QAPP?	Y___ N_X_
Were any data qualified because of FB problems?	Y_X_ N___

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

*CdTR was detected in **FB SWSD0272** at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*
*PbTR was detected in **FB SWSD0272** at a concentration >1.5X MDL. Associated PbTR sample results were >10X the FB value and were not qualified.*
*CdTR was detected in **FB SWSD0286** at a concentration ≤1.5X MDL thus, was not further assessed per TREC data validation guidelines.*
*PbTR and ZnTR were detected in **FB SWSD0286** at concentrations >1.5X MDL. Associated sample SWSD0287 PbTR and ZnTR results were >RL, but ≤10X the FB value and qualified J+. The remaining associated PbTR and ZnTR results were >10X the FB and were not qualified.*

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP? Y_X_ N___
Were results for FDs within the target control limits in the BPSOU SW QAPP? Y___ N_X_
Were any data qualified because of FD results? Y_X_ N___

Field duplicate set SWSD0284/SWSD0285 *PbDis and ZnDis RPDs>20%. The primary and duplicate PbDis results were >5X the RL. The primary and duplicate ZnDis results were <5X the RL and the difference between the two results was < the RL; thus, no associated ZnDis results were qualified. Matrix similarity is considered when assessing field duplicate precision. Samples SWSD0277-SWSD0283 were collected from the same drainage as the field duplicate set, SWSD0284 and SWSD0285, and considered to be of a similar matrix to the the field duplicate set. The remaining samples associated with this field duplicate set were collected in different drainages and considered dissimilar to the field duplicate set. PbDis results for SWSD0277-SWSD0285 were ≥MDL and qualified J.*

Additional Comments

Samples SWSD0287 and SWSD0289 were not analyzed for HgDis or dissolved metals (As, Cd, Cu, Fe, Pb, Zn). Samples SWSD0287-SWSD0289 were not analyzed for TSS or SO4.

DATA VALIDATION SUMMARY FOR SDG 10583383

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.03
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10583383
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	10/8/2021, 10/14/2021	**Analysis Date(s):**	10/15/2021, 10/21/2021, 10/28/2021, 10/30/2021
Data Validator:	Hannah Foster	**Validation Date:**	12/20/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	10/8/2021, 10/14/2021	10/21/2021
Total Mercury	Aqueous	EPA 245.1	10/8/2021, 10/14/2021	10/28/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	10/8/2021, 10/14/2021	10/27/21, 10/28/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	10/8/2021, 10/14/2021	10/30/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	10/8/2021, 10/14/2021	10/15/2021, 10/21/2021
Sulfate (SO4)	Aqueous	ASTM D516	10/8/2021, 10/14/2021	10/28/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y__X__ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y__X__ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	112	80	80	0	0
Percentage		71%	100%	0%	0%

Analyses of this sample sest resulted in 80 natural sample data points, all which met enforcement quality. All anticipated data was collected, so completeness for the data set is 100%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10583383
Matrix:	Aqueous	**Analysis:**	Total and Dissolved Mercury
Sample Date(s):	10/8/2021, 10/14/2021	**Analysis Date(s):**	10/21/2021, 10/28/2021
Data Validator:	Hannah Foster	**Validation Date:**	12/20/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Mercury					
SWSD0290-100821	10583383001	777584	IS5	SWSD0296-101421	SWSD0290
SWSD0291-100821	10583383002	777584	IS4	SWSD0296-101421	SWSD0291
SWSD0292-100821	10583383003	777584	IS3	SWSD0296-101421	SWSD0292
SWSD0293-100821	10583383004	777584	IS2	SWSD0296-101421	SWSD0293
SWSD0294-100821	10583383005	777584	IS1-N	SWSD0296-101421	SWSD0294
SWSD0295-100821	10583383006	777584	IS1-D	SWSD0296-101421	SWSD0295
SWSD0296-101421	10583383007	777584	FB	SWSD0296-101421	SWSD0296
Total Mercury					
SWSD0290-100821	10583383001	780014	IS5	SWSD0296-101421	SWSD0290
SWSD0291-100821	10583383002	780014	IS4	SWSD0296-101421	SWSD0291
SWSD0292-100821	10583383003	780014	IS3	SWSD0296-101421	SWSD0292
SWSD0293-100821	10583383004	780014	IS2	SWSD0296-101421	SWSD0293
SWSD0294-100821	10583383005	780014	IS1-N	SWSD0296-101421	SWSD0294
SWSD0295-100821	10583383006	780014	IS1-D	SWSD0296-101421	SWSD0295
SWSD0296-101421	10583383007	780014	FB	SWSD0296-101421	SWSD0296

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Mercury	Aqueous	EPA 245.1	10/8/2021, 10/14/2021	10/21/2021	No
Total Mercury	Aqueous	EPA 245.1	10/8/2021, 10/14/2021	10/28/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 85-115% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were MS samples analyzed at the frequency of 1 per batch with an additional MS analyzed for batches of 11 or more samples ?	Y_X_ N___
Were MS/MSD results within control window of 70-130% recovery for samples in which the parent sample concentration was ≤	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results <	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10583383
Matrix:	Aqueous	**Analysis:**	Total and Dissolved: As, Cd, Cu, Fe, Pb, Zn
Sample Date(s):	10/8/2021, 10/14/2021	**Analysis Date(s):**	10/27/21, 10/28/2021, 10/30/2021
Data Validator:	Hannah Foster	**Validation Date:**	12/20/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Dissolved Metals					
SWSD0290-100821	10583383001	777579	IS5	SWSD0296-101421	SWSD0290
SWSD0291-100821	10583383002	777579	IS4	SWSD0296-101421	SWSD0291
SWSD0292-100821	10583383003	777579	IS3	SWSD0296-101421	SWSD0292
SWSD0293-100821	10583383004	777579	IS2	SWSD0296-101421	SWSD0293
SWSD0294-100821	10583383005	777579	IS1-N	SWSD0296-101421	SWSD0294
SWSD0295-100821	10583383006	777579	IS1-D	SWSD0296-101421	SWSD0295
SWSD0296-101421	10583383007	777579	FB	SWSD0296-101421	SWSD0296
Total Metals					
SWSD0290-100821	10583383001	777580	IS5	SWSD0296-101421	SWSD0290
SWSD0291-100821	10583383002	777580	IS4	SWSD0296-101421	SWSD0291
SWSD0292-100821	10583383003	777580	IS3	SWSD0296-101421	SWSD0292
SWSD0293-100821	10583383004	777580	IS2	SWSD0296-101421	SWSD0293
SWSD0294-100821	10583383005	777580	IS1-N	SWSD0296-101421	SWSD0294
SWSD0295-100821	10583383006	777580	IS1-D	SWSD0296-101421	SWSD0295
SWSD0296-101421	10583383007	777580	FB	SWSD0296-101421	SWSD0296

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	10/8/2021, 10/14/2021	10/27/21, 10/28/2021	No
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	10/8/2021, 10/14/2021	10/30/2021	No

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y__ N__X_

Were any data flagged because of blank problems? Y_X_ N___

Describe corrective actions taken because of blank problems.

QC Batch 777580 *CuTR and PbTR were detected in MB 4142107 at concentrations >1.5X the MDL. Associated CuTR sample results were >10X the MB or non-detect thus, were not qualified. The PbTR result for SWSD0296, the field blank, was > the MDL but < the RL and qualified UJ. All other PbTR results were >10X the MB detection.*

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

Was LCS within control window of 85-115% recovery? Y_X_ N___

Were any data flagged because of LCS problems? Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Was MS sample analyzed at the frequency of 1/10 samples? Y_X_ N___

Were MS/MSD results within control window of 70-130% for samples in which the parent sample concentration was ≤ 4X the Y_X_ N___

Was the MSD sample analyzed at the frequency of 1/20 samples? Y_X_ N___

For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < Y_X_ N___

Were any data flagged because of MS/MSD recovery problems? Y___ N_X_

Were any data flagged because of MS/MSD RPD problems? Y___ N_X_

Describe corrective actions taken because of MS problems.

QC Batch 777579, MS 4142103 MSD 4142104 *CuDis and ZnDis recoveries were <70%. The parent sample concentrations were >4X the spike concentrations, so recovery criteria were waived. Additionally, the parent sample was not project associated so matrix similarity could not be determined.*

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10583383
Matrix:	Aqueous	**Analysis:**	Total Suspended Solids
Sample Date(s):	10/8/2021, 10/14/2021	**Analysis Date(s):**	10/15/2021, 10/21/2021
Data Validator:	Hannah Foster	**Validation Date:**	12/20/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0290-100821	10583383001	777254	IS5	SWSD0296-101421	SWSD0290
SWSD0291-100821	10583383002	777254	IS4	SWSD0296-101421	SWSD0291
SWSD0292-100821	10583383003	777254	IS3	SWSD0296-101421	SWSD0292
SWSD0293-100821	10583383004	777254	IS2	SWSD0296-101421	SWSD0293
SWSD0294-100821	10583383005	777254	IS1-N	SWSD0296-101421	SWSD0294
SWSD0295-100821	10583383006	777254	IS1-D	SWSD0296-101421	SWSD0295
SWSD0296-101421	10583383007	778371	FB	SWSD0296-101421	SWSD0296

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Suspended Solids (TSS)	Aqueous	SM2540D	10/8/2021, 10/14/2021	10/15/2021, 10/21/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR TSS

Was LCS within control window of 80-120% recovery?	Y_X_ N___
If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent	Y____ N_____ NA_X_
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 10% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y__ N_X__
Were any data flagged because of LDS problems?	Y___ N_X_

Describe corrective actions taken because of LDS problems.

***QC Batch 778371** , Laboratory Duplicate 4145655 RPD >10%, however, the parent sample was not project associated. Since sample collection and handling methods, as well as the reliability of the result are unknown, no qualifiers were applied.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10583383
Matrix:	Aqueous	**Analysis:**	Sulfate
Sample Date(s):	10/8/2021, 10/14/2021	**Analysis Date(s):**	10/28/2021
Data Validator:	Hannah Foster	**Validation Date:**	12/20/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0290-100821	10583383001	779894	IS5	SWSD0296-101421	SWSD0290
SWSD0291-100821	10583383002	779894	IS4	SWSD0296-101421	SWSD0291
SWSD0292-100821	10583383003	779894	IS3	SWSD0296-101421	SWSD0292
SWSD0293-100821	10583383004	779894	IS2	SWSD0296-101421	SWSD0293
SWSD0294-100821	10583383005	779894	IS1-N	SWSD0296-101421	SWSD0294
SWSD0295-100821	10583383006	779894	IS1-D	SWSD0296-101421	SWSD0295
SWSD0296-101421	10583383007	779894	FB	SWSD0296-101421	SWSD0296

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Sulfate (SO4)	Aqueous	ASTM D516	10/8/2021, 10/14/2021	10/28/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were Method Blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD)

Were the LCS/LCSD analyzed at the frequency of 1/20 samples? Y_X_ N___

Were the LCS/LCSD within control window of 80-120% recovery? Y_X_ N___

LABORATORY DATA VALIDATION CHECKLIST FOR SULFATE

Was the LCS/LCSD ≤ 20% relative percent difference (RPD)?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were the MS and MSD analyzed at the frequency of 1/10 samples ?	Y_X_ N___
Were the MS/MSD within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 30% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.

QC Batch 779894 MSD 4153601 *recovery <80% RPD. The parent sample concentration was >4X the spike concentration, so recovery criteria were waived. Additionally, the parent sample was not project associated so matrix similarity could not be determined.*

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10583383
Matrix:	Aqueous	**Analysis:**	Dissolved Mercury, Total Mercury, Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn, Total Metals: As, Cd, Cu, Fe, Pb, Zn, Total Suspended Solids (TSS), Sulfate (SO4)
Sample Date(s):	10/8/2021, 10/14/2021		
Data Validator:	Hannah Foster	**Validation Date:**	12/20/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SWSD0290-100821	10583383001	IS5	SWSD0296-101421	SWSD0290
SWSD0291-100821	10583383002	IS4	SWSD0296-101421	SWSD0291
SWSD0292-100821	10583383003	IS3	SWSD0296-101421	SWSD0292
SWSD0293-100821	10583383004	IS2	SWSD0296-101421	SWSD0293
SWSD0294-100821	10583383005	IS1-N	SWSD0296-101421	SWSD0294
SWSD0295-100821	10583383006	IS1-D	SWSD0296-101421	SWSD0295
SWSD0296-101421	10583383007	FB	SWSD0296-101421	SWSD0296

Analyte	Matrix	Method	Collection Date	Analysis Date
Dissolved Mercury	Aqueous	EPA 245.1	10/8/2021, 10/14/2021	10/21/2021
Total Mercury	Aqueous	EPA 245.1	10/8/2021, 10/14/2021	10/28/2021
Dissolved Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	10/8/2021, 10/14/2021	10/27/21, 10/28/2021
Total Metals: As, Cd, Cu, Fe, Pb, Zn	Aqueous	EPA 200.8	10/8/2021, 10/14/2021	10/30/2021
Total Suspended Solids (TSS)	Aqueous	SM2540D	10/8/2021, 10/14/2021	10/15/2021, 10/21/2021
Sulfate (SO4)	Aqueous	ASTM D516	10/8/2021, 10/14/2021	10/28/2021

Field QC Samples

Field Blanks FB)

Were FBs sumbitted as specified in the BPSOU SW QAPP? Y_X_ N___

Were results for FBs within the target control limits in the BPSOU SW QAPP? Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Were any data qualified because of FB problems?	Y___ N_X_

FeDis and PbDis were detected in FB SWSD0296 at concentrations <1.5X the MDL. Blank detections ≤ 1.5X the MDL are not further assessed per TREC data validation guidelines.

PbTR was detected in FB SWSD0296 at a concentration >1.5X the MDL. Associated PbTR sample results were >10X the FB thus, no qualifications were given.

Field Replicates

Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP?	Y_X_ N___
Were results for FDs within the target control limits in the BPSOU SW QAPP?	Y_X_ N___
Were any data qualified because of FD results?	Y___ N_X_

Additional Comments

Attachment B
Level A/B Screening Checklists

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10560269	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X___
Sample Matrix:	Water	3) Level B ___X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10561913	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X__
Sample Matrix:	Water	3) Level B ___X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10562410	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X__
Sample Matrix:	Water	3) Level B ___X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10563136	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X__
Sample Matrix:	Water	3) Level B ___X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist for SDG 10565533

I. General Information		II. Screening Results
Site:	BPSOU/10565533	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X__
Sample Matrix:	Water	3) Level B ___X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist for SDG 10568970

I. General Information		II. Screening Results
Site:	BPSOU/10568970	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X__
Sample Matrix:	Water	3) Level B ___X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10571347	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10573163	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10574254	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10575529	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X___
Sample Matrix:	Water	3) Level B ___X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10576049	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10583383	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A ___X___
Sample Matrix:	Water	3) Level B ___X___

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	NA
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Appendix F
Diagnostic Flow Data

Figure F1. BPSOU 2021 Discharge Hydrograph - BG-CLV-1
Figure F2. BPSOU 2021 Discharge Hydrograph - GG-CH-1
Figure F3. BPSOU 2021 Discharge Hydrograph - LC-CLV-1
Figure F4. BPSOU 2021 Discharge Hydrograph - MG-CLV-0
Figure F5. BPSOU 2021 Discharge Hydrograph - MPTP-CLV-1
Figure F6. BPSOU 2021 Discharge Hydrograph - MSD-CLV-3A
Figure F7. BPSOU 2021 Discharge Hydrograph - TX-HD-1
Figure F8. BPSOU 2021 Discharge Hydrograph - GG-CLV-D
Figure F9. BPSOU 2021 Discharge Hydrograph - GG-CLV-I
Figure F10. BPSOU 2021 Discharge Hydrograph - GG-CLV-C

Butte Priority Soils Operable Unit (BPSOU)
Silver Bow Creek/Butte Area Site

Appendix F: Flow Hydrographs
Draft 2021 Site-Wide Surface Water Butte Hill Diagnostic Data

Atlantic Richfield

April 2022

LIST OF FIGURES

Figure F1. BPSOU 2021 Discharge Hydrograph - BG-CLV-1
Figure F2. BPSOU 2021 Discharge Hydrograph - GG-CH-1
Figure F3. BPSOU 2021 Discharge Hydrograph - LC-CLV-1
Figure F4. BPSOU 2021 Discharge Hydrograph - MG-CLV-0
Figure F5. BPSOU 2021 Discharge Hydrograph - MPTP-CLV-1
Figure F6. BPSOU 2021 Discharge Hydrograph - MSD-CLV-3A
Figure F7. BPSOU 2021 Discharge Hydrograph - TX-HD-OUT
Figure F8 BPSOU 2021 Discharge Hydrograph - GG-CLV-D
Figure F9. BPSOU 2021 Discharge Hydrograph - GG-CLV-I
Figure F10. BPSOU 2021 Discharge Hydrograph - GG-CLV-C

Figure F1. BPSOU 2021 Diagnostic Hydrograph - BG-CLV-1

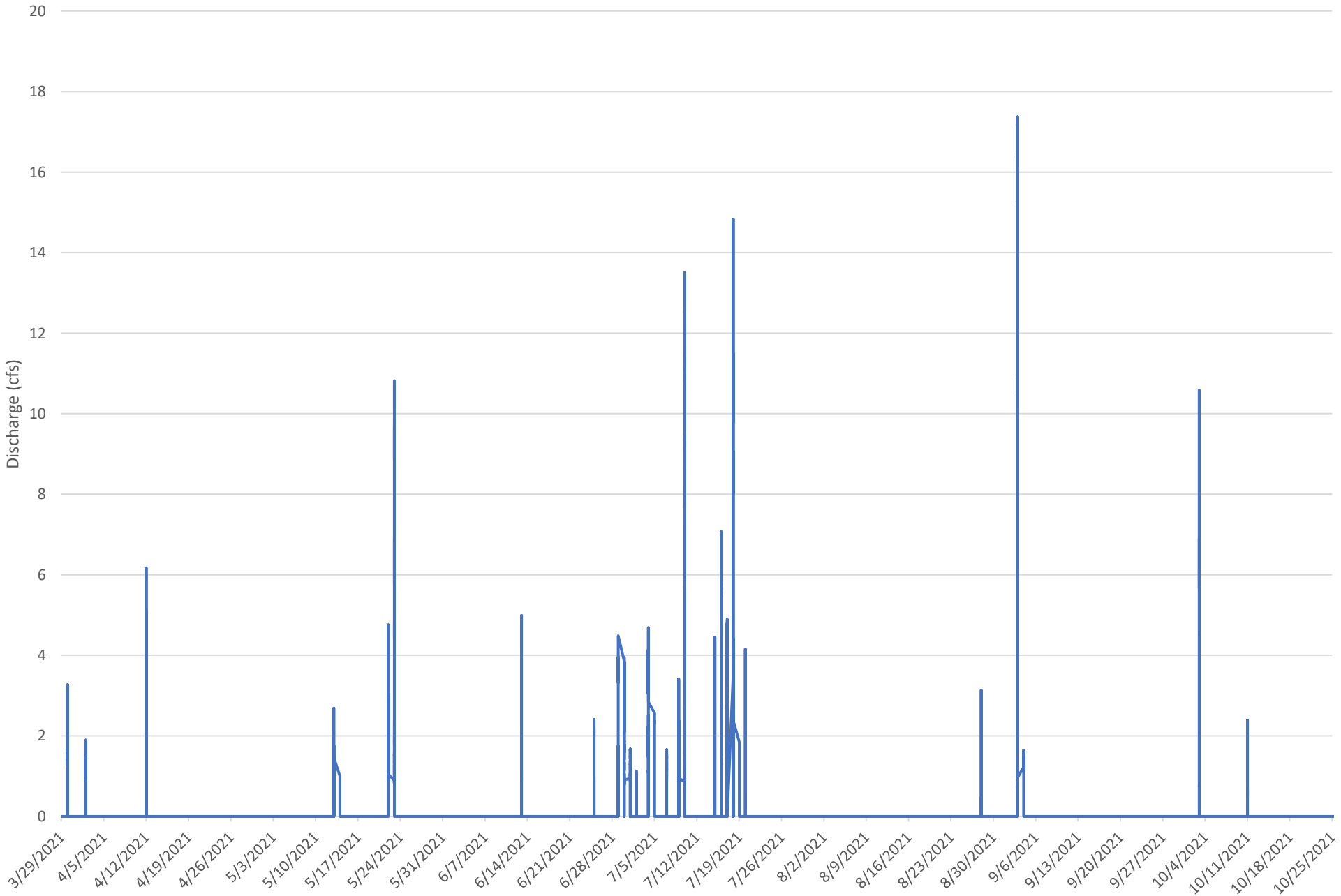


Figure F2. BPSOU 2021 Diagnostic Hydrograph - GG-CH-1

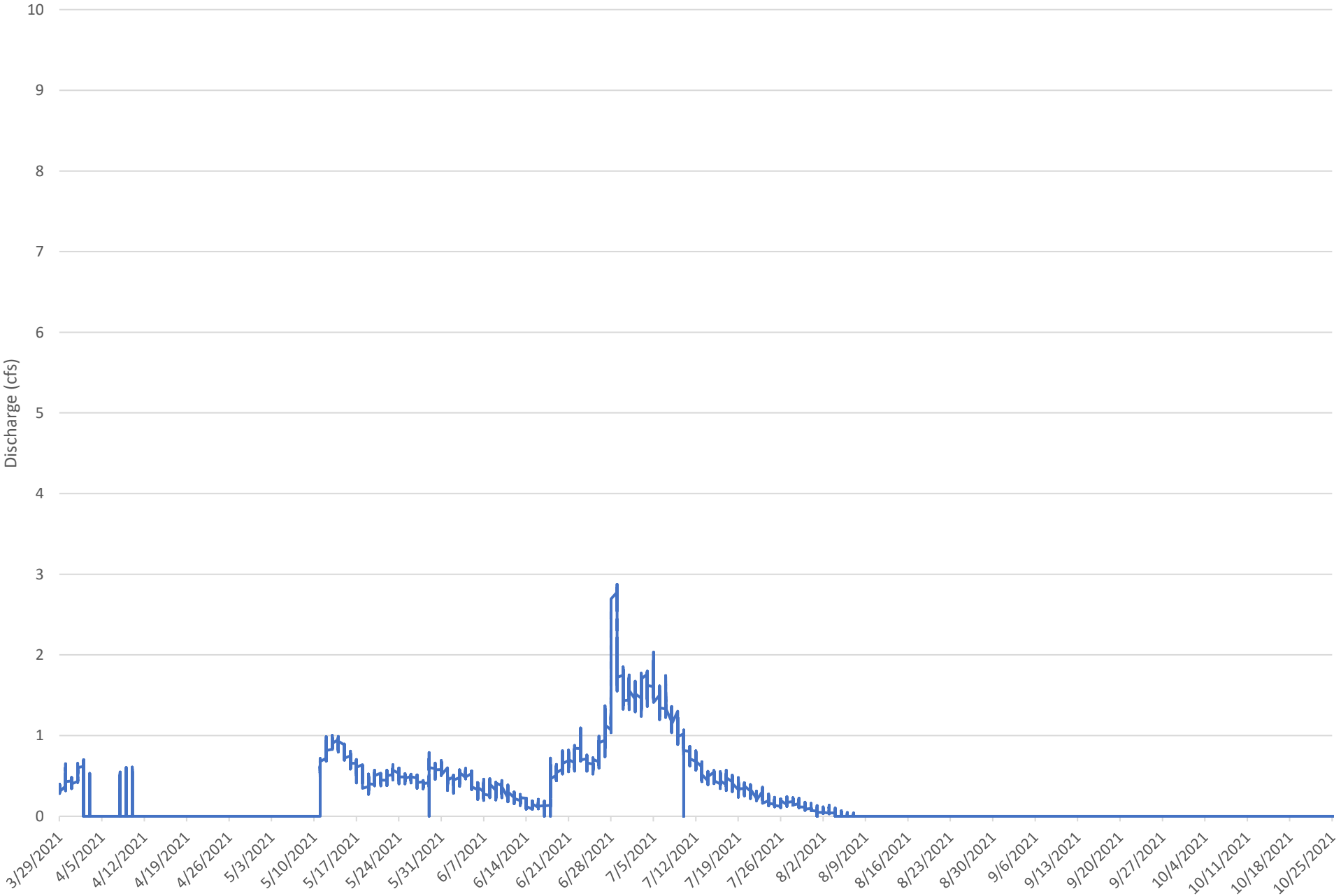


Figure F3. BPSOU 2021 Diagnostic Hydrograph - LC-CLV-1

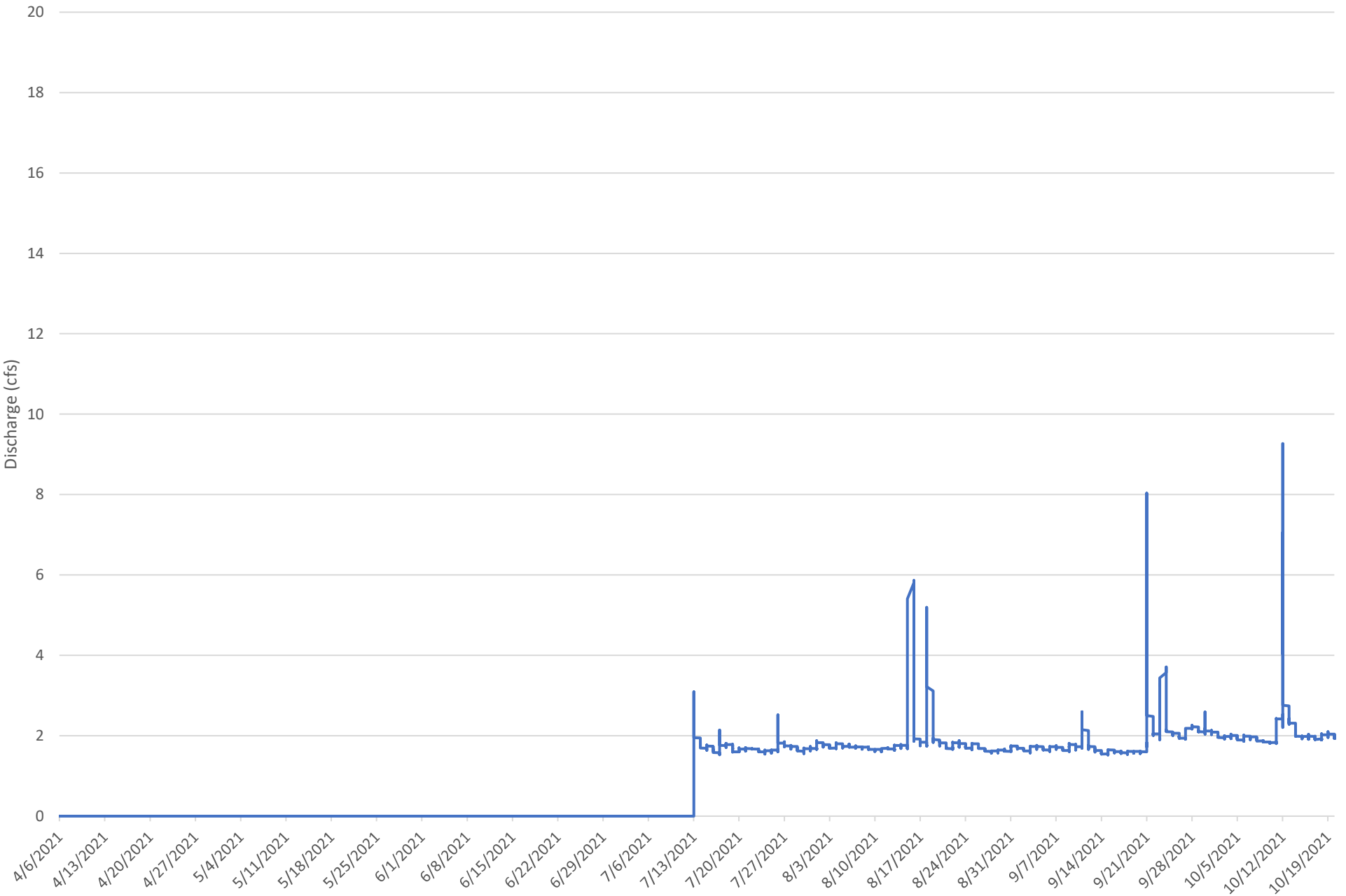


Figure F4. BPSOU 2021 Diagnostic Hydrograph - MG-CLV-0

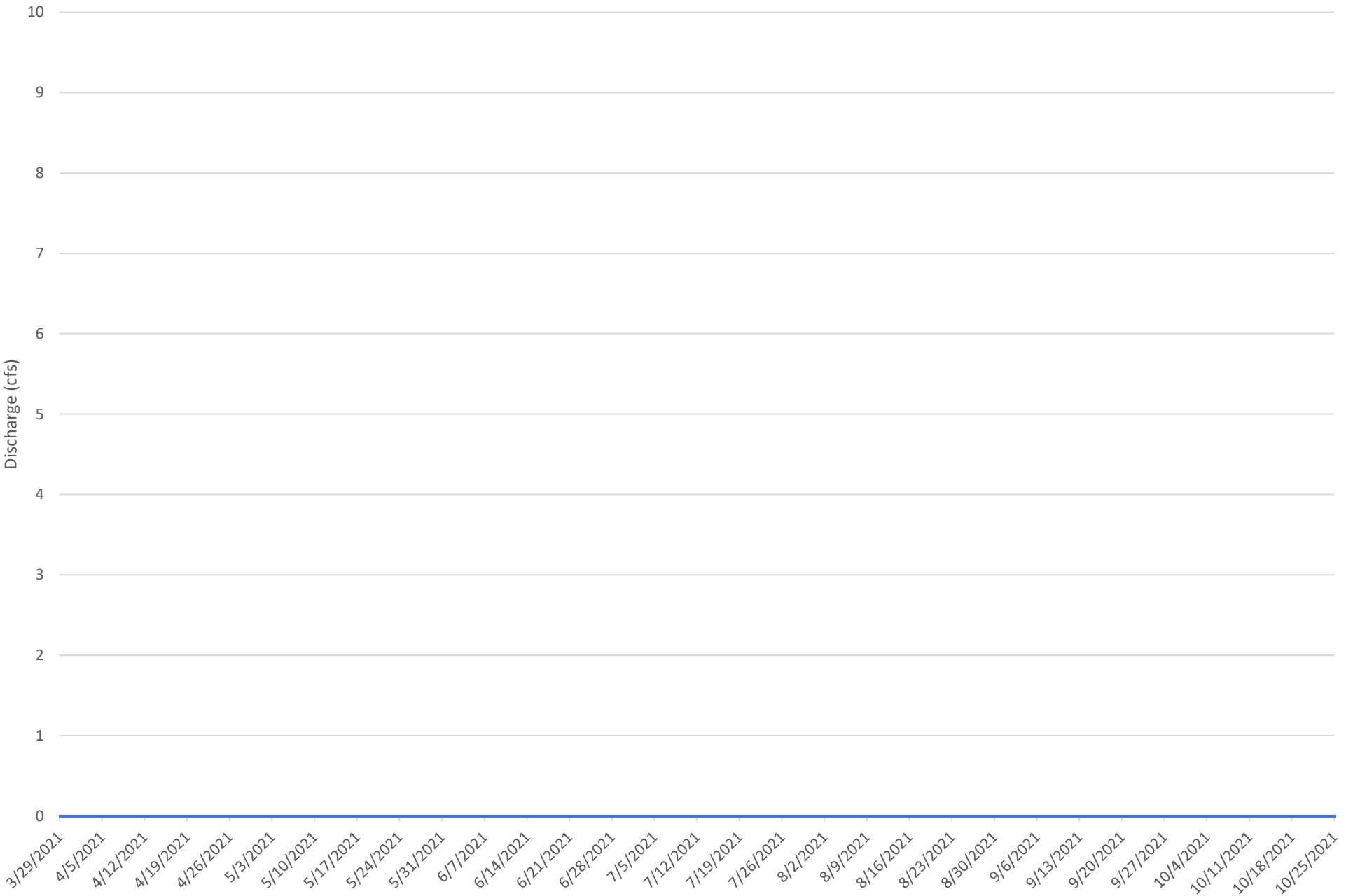


Figure F5a. BPSOU 2021 Diagnostic Hydrograph - MPTP-CLV-1 (L)

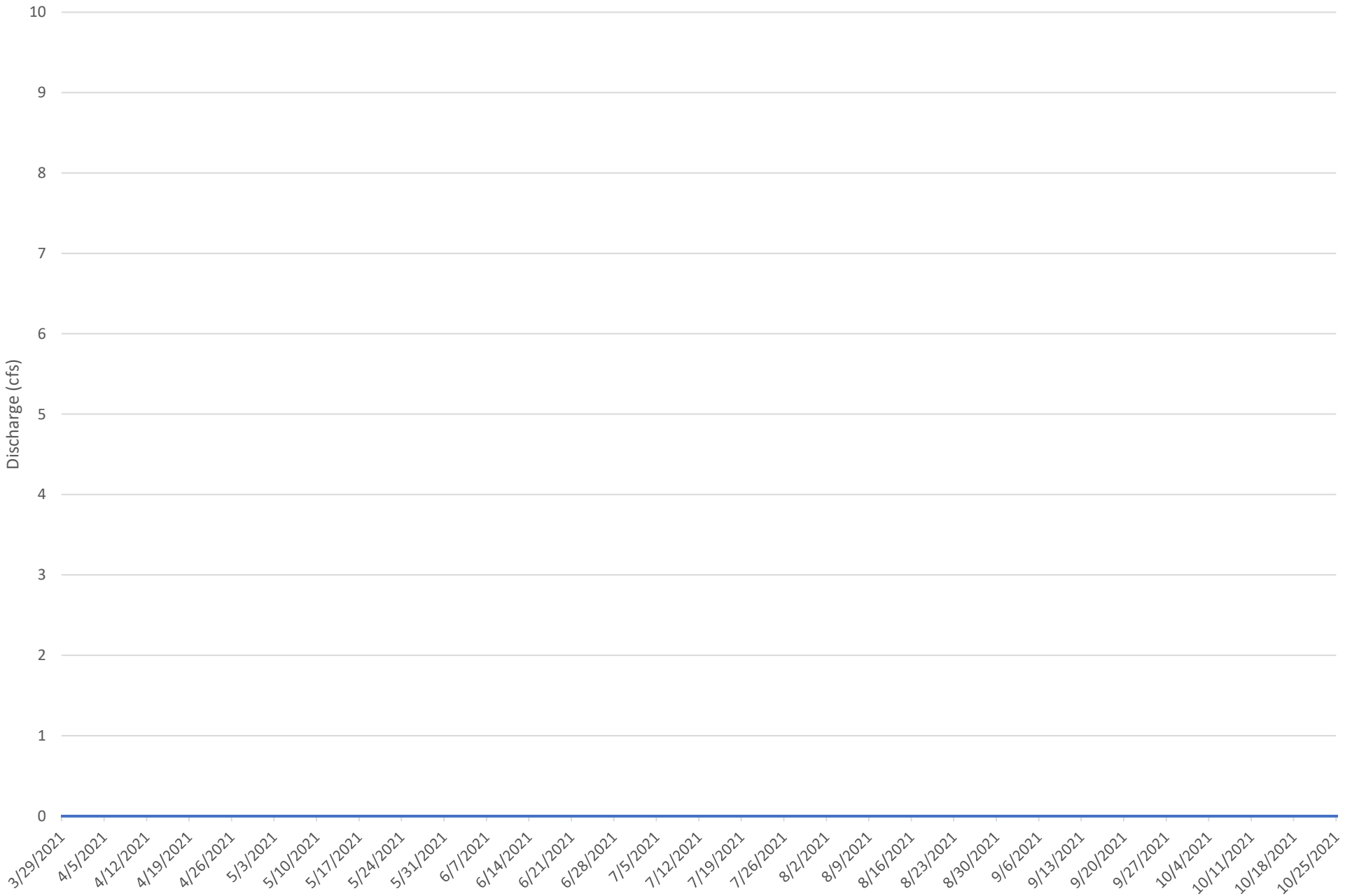


Figure F5b. BPSOU 2021 Diagnostic Hydrograph - MPTP-CLV-1 (R)

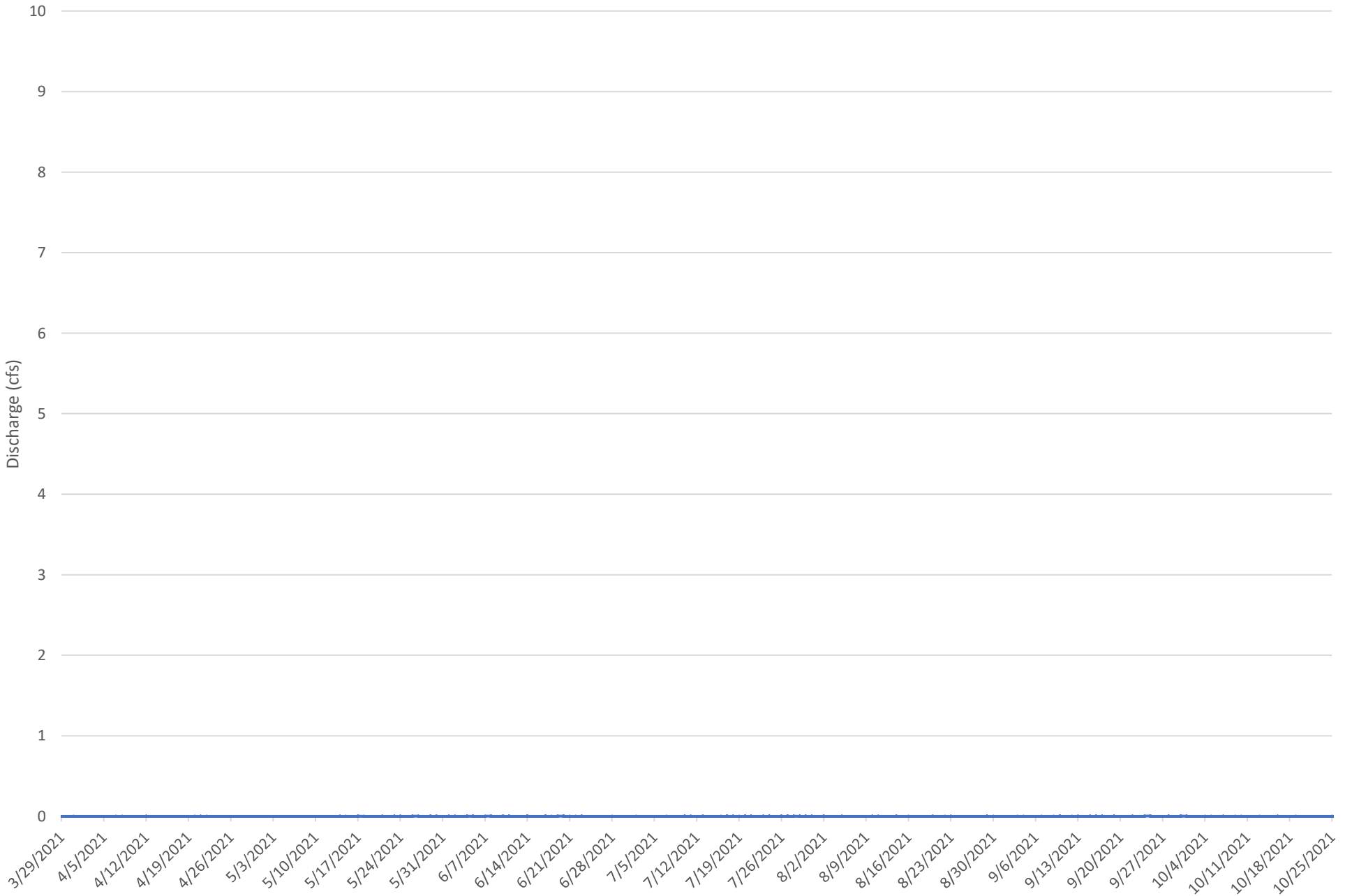


Figure F6a. BPSOU 2021 Diagnostic Hydrograph - MSD-CLV-3A (L)

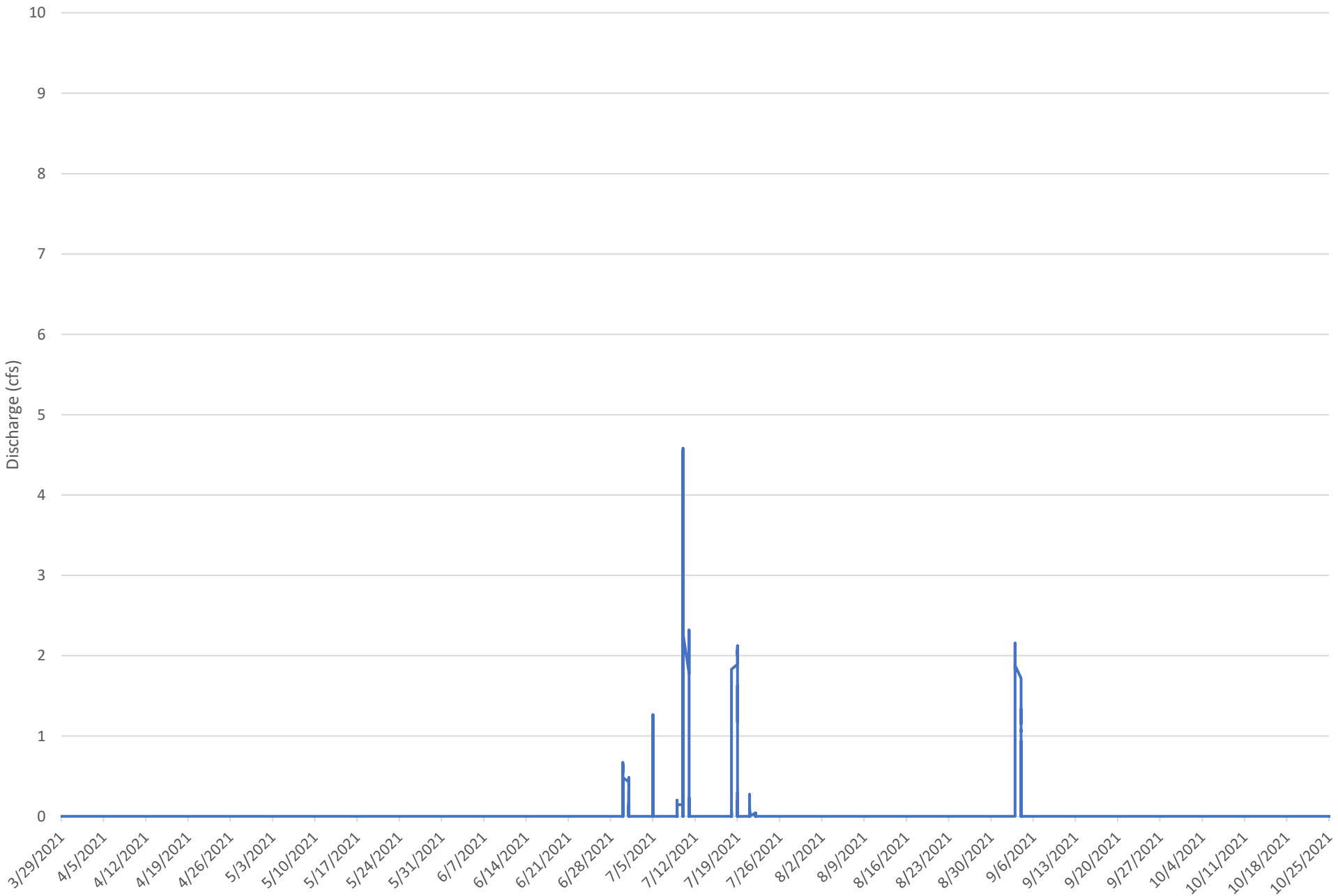


Figure F6b. BPSOU 2021 Diagnostic Hydrograph - MSD-CLV-3A (R)

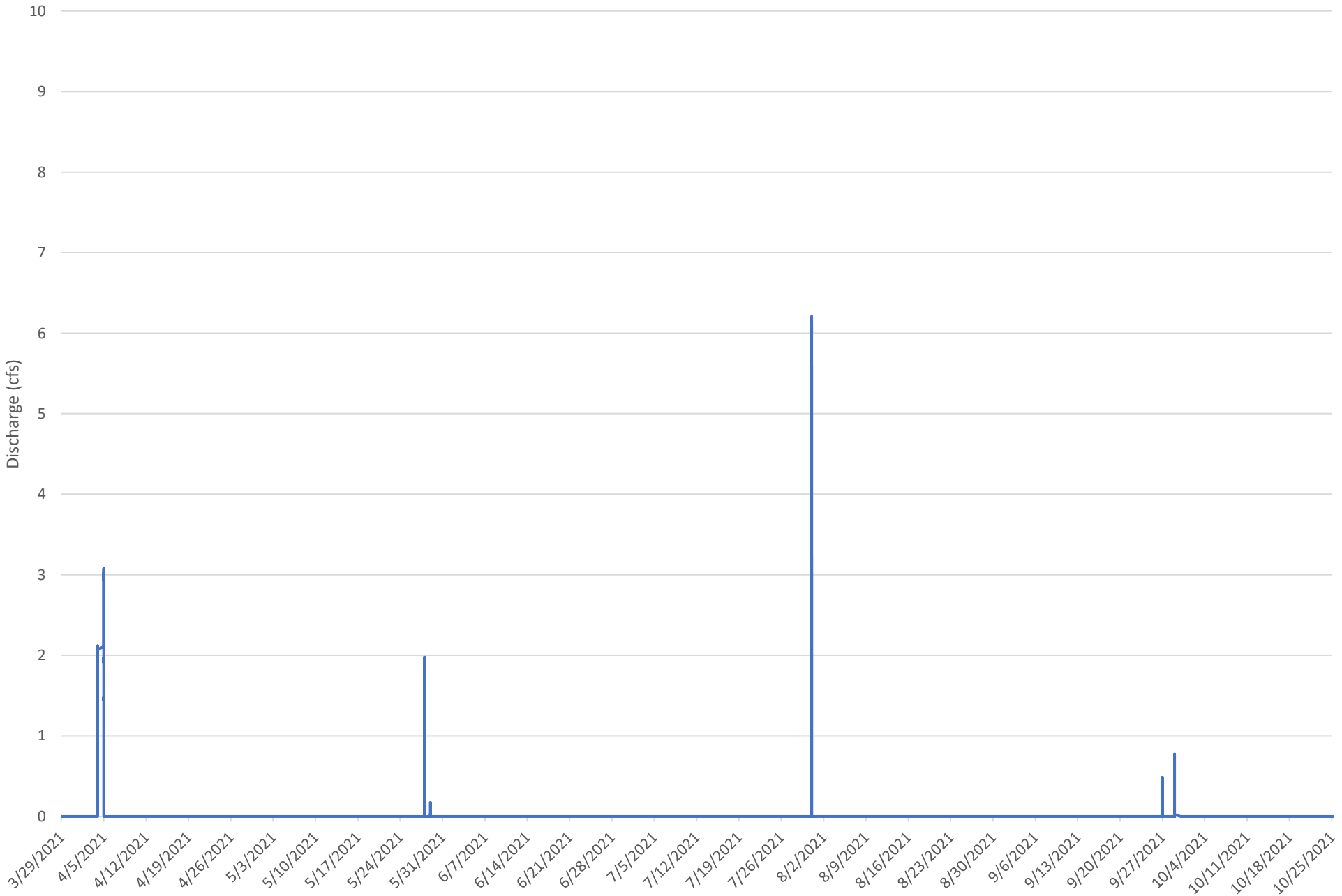


Figure F7. BPSOU 2021 Diagnostic Hydrograph - TX-HD-OUT

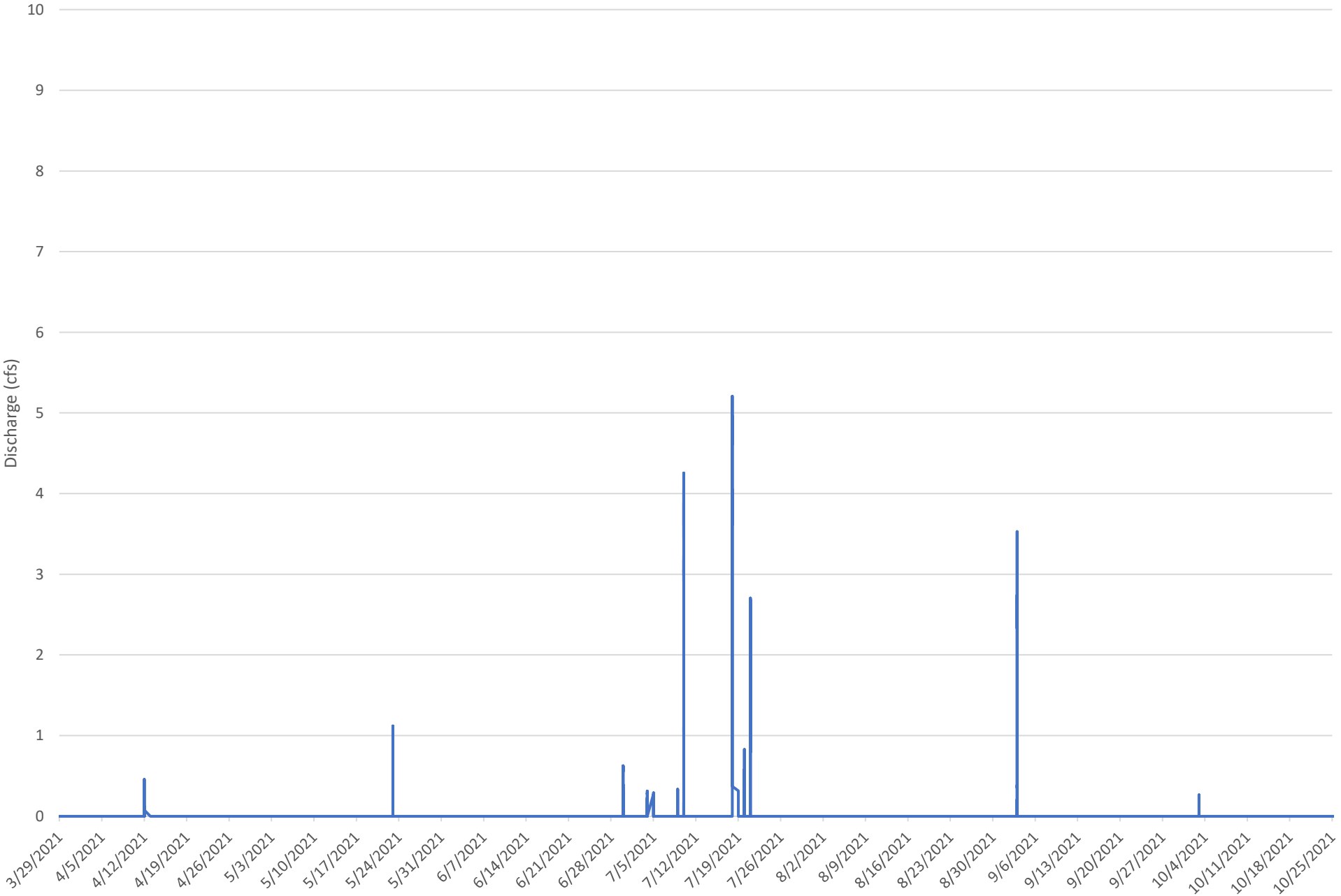


Figure F8. BPSOU 2021 Diagnostic Hydrograph - GG-CLV-D

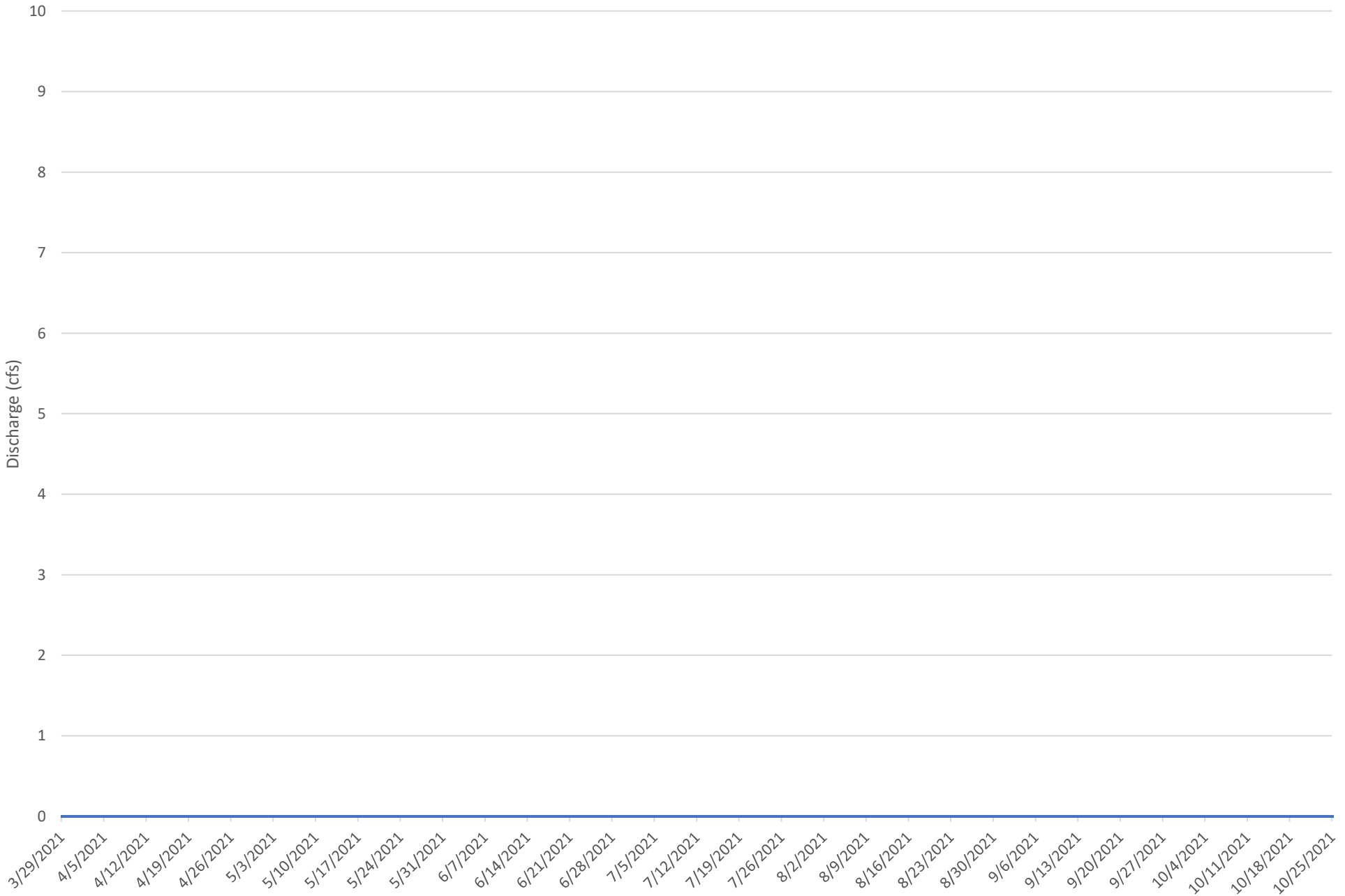


Figure F9. BPSOU 2021 Diagnostic Hydrograph - GG-CLV-I

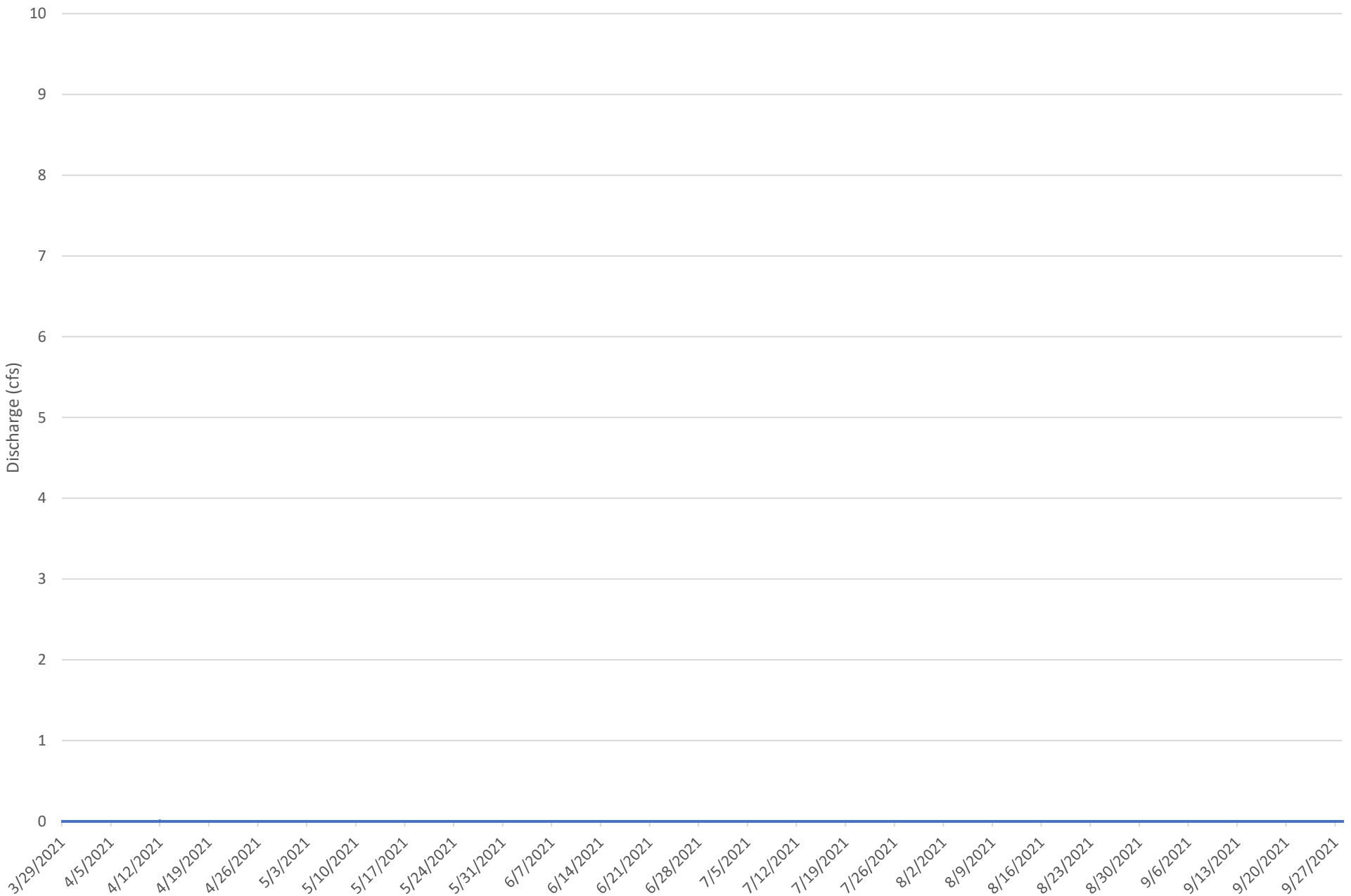
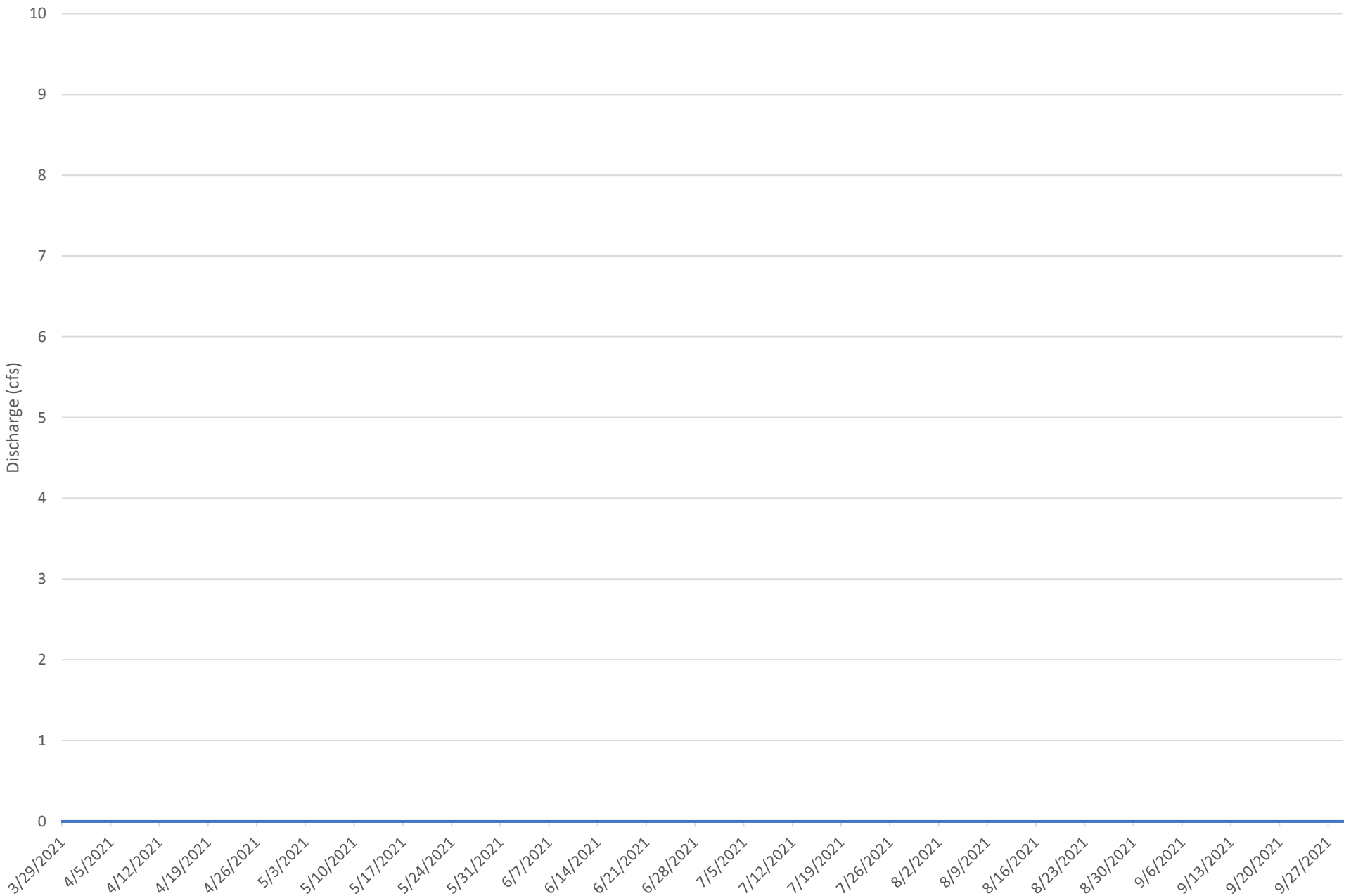


Figure F10. BPSOU 2021 Diagnostic Hydrograph - GG-CLV-C



Appendix G
Diagnostic Raw Data

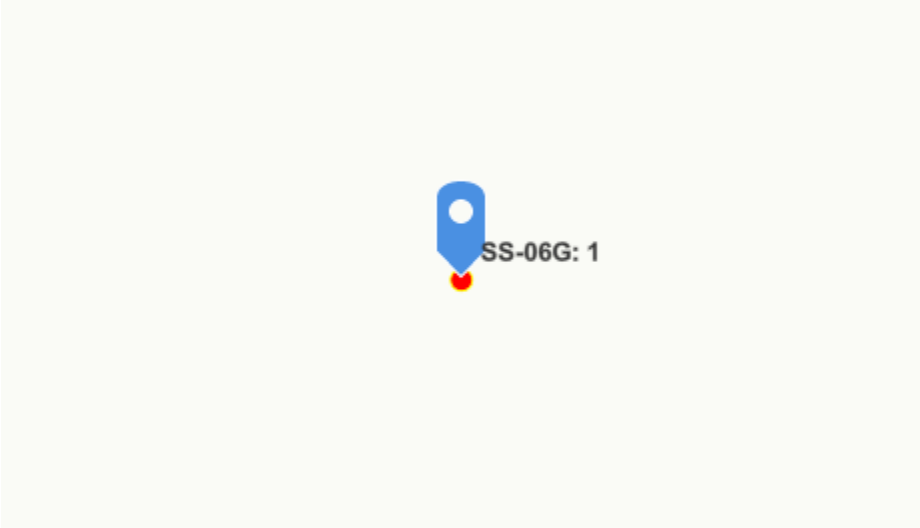
Appendix H
Sediment Field Sheets

BPSOU Sediment Sampling

AT: SS-06G

TRANSECT NUMBER: 1

Transect Location



Lattitude: 45.99996008467592 Longitude: -112.54008360193644

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: GW

Depth Interval Notes:

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: GW

Depth Interval Notes:

2 to 5 inches of 2 to 6 inch interval

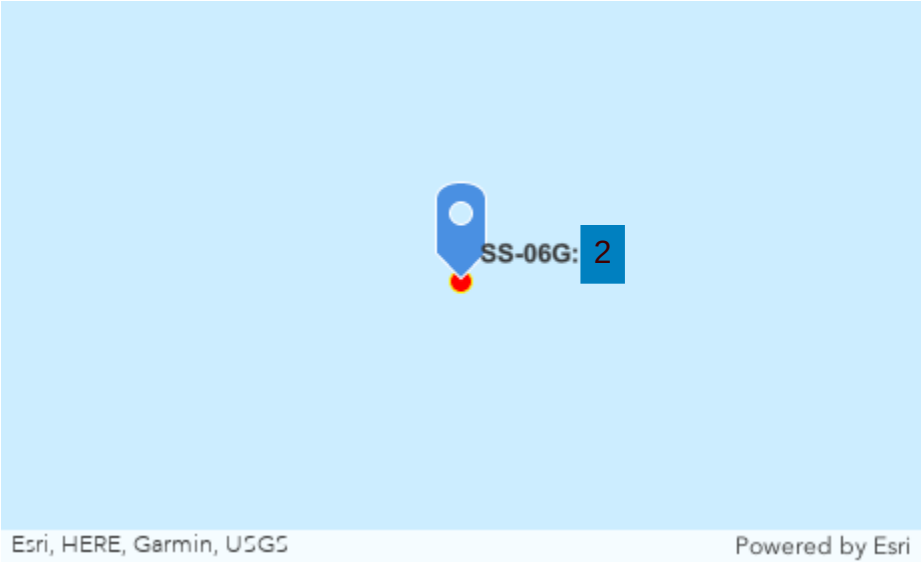
No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-06G

TRANSECT NUMBER: 2

Transect Location



Latitude: 0 Longitude: 0

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

SM with cobble

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SP

Depth Interval Notes:

2-4 inches of 2-6 inch interval; SP with cobbles, gravel, and root matter

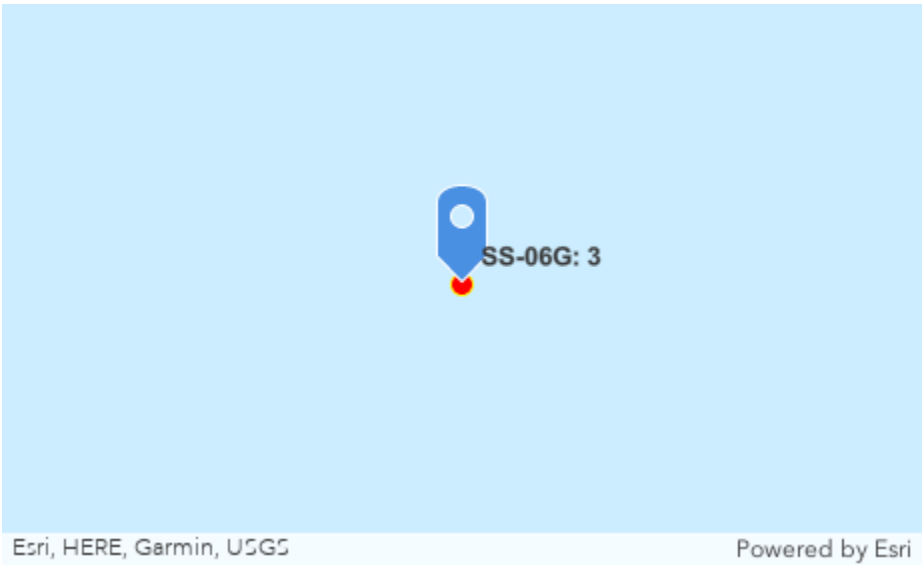
No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-06G

TRANSECT NUMBER: 3

Transect Location



Lattitude: 0 Longitude: 0

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Black

Characterization: SC

Depth Interval Notes:

With high organics and root matter

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SC

Depth Interval Notes:

2-4 inches of 2-6 inch interval available, 2nd sample 2-5 inches available

No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-06G

TRANSECT NUMBER: 4

Transect Location

Lattitude: 45.99632795439804 Longitude: -112.56158175902416

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

With gravel and cobbles

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

2-4 of 2-6 inch interval available

No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-06G

TRANSECT NUMBER: 5

Transect Location

Lattitude: 45.99629836628463 Longitude: -112.56130917962425

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

With gravel and cobbles

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

2-4 of 2-6 inch interval available, with gravel

No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-06A

TRANSECT NUMBER: 1

Transect Location

Lattitude: 45.99427991997427 Longitude: -112.55238622468688

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

SM with large gravel

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

with plastic debris, root matter, and one cobble

No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-06A

TRANSECT NUMBER: 2

Transect Location

Lattitude: 45.99427820186342 Longitude: -112.55216720553912

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Black

Characterization: SM

Depth Interval Notes:

SM-OL (highly organic silty sand)

0206 Depth

Grain Size: Coarse-grained

Color: Black

Characterization: SC

Depth Interval Notes:

No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-06A

TRANSECT NUMBER: 3

Transect Location

Lattitude: 45.99447358373639 Longitude: -112.5518705692559

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

SM with gravel

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

2-5 inches of 2-6 inch interval

No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-06A

TRANSECT NUMBER: 4

Transect Location

Lattitude: 45.994632044195214 Longitude: -112.55151316553696

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

SM with gravel and cobbles

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

SM with plant matter, gravel, cobbles

0612 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: GM

Depth Interval Notes:

No 6-12 on second sample, 6-7 inches of 6-12 inch interval available in sample

BPSOU Sediment Sampling

AT: SS-06A

TRANSECT NUMBER: 5

Transect Location

Lattitude: 45.994483013653245 Longitude: -112.55105450731244

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

With cobbles and gravel

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

2-4.5 inches available, 2-3 inches available in second sample, with gavel

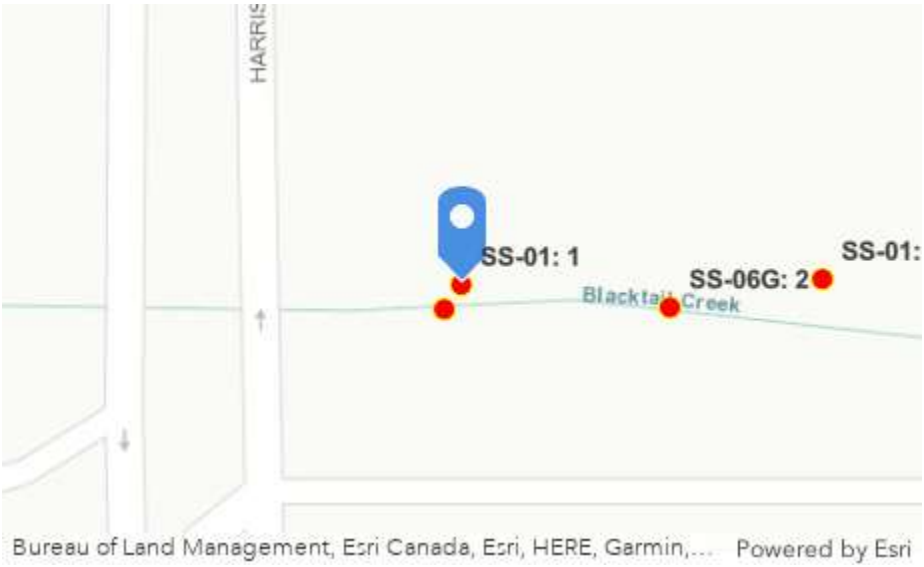
No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-01

TRANSECT NUMBER: 1

Transect Location



Lattitude: 45.98526459667401 Longitude: -112.5077478126299

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

SS-01 Transect 2, wrong site chosen on electronic form; thus all SS-01 drawings name SS-01 transect 2 as SS-06G 2.

0002 Depth

Grain Size: Coarse-grained

Color: Gray

Characterization: SM

Depth Interval Notes:

Plastic debris, very fine silty sand, SM-OL

0206 Depth

Grain Size: Coarse-grained

Color: Black

Characterization: SM

Depth Interval Notes:

SM-OL, fibrous spongelike texture

0612 Depth

Grain Size: Organic

Color: Black

Characterization: OL

Depth Interval Notes:

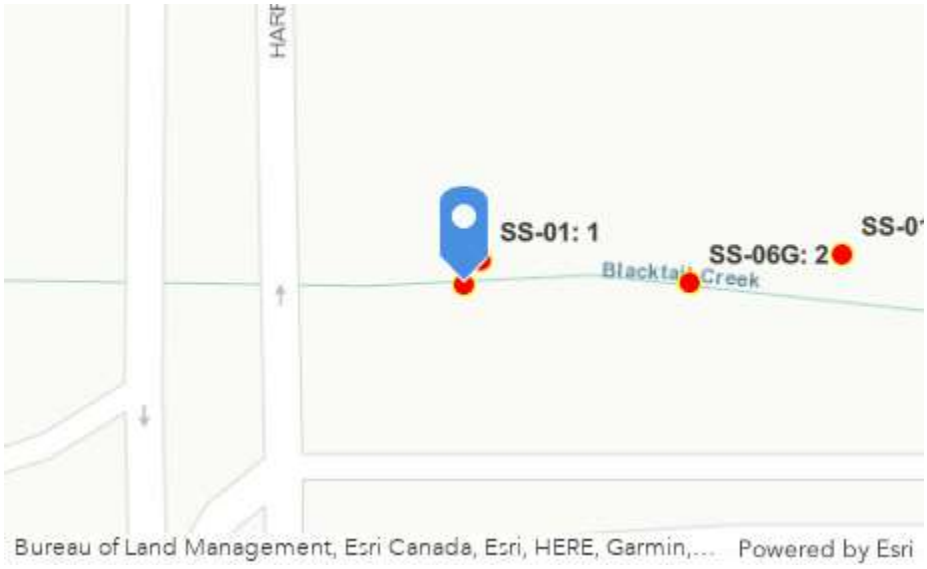
6-9 inches of 6-12 inch interval available, ML/OL

BPSOU Sediment Sampling

AT: SS-01

TRANSECT NUMBER: 2

Transect Location



Lattitude: 45.98524023958892 Longitude: -112.50777289449096

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

Second sample 2-5 inches available

0612 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

6-9 inches of 6-12 inches available, high organic content (odorous, dark color, slightly spongier)

BPSOU Sediment Sampling

AT: SS-01

TRANSECT NUMBER: 3

Transect Location

Lattitude: 45.98526983548699 Longitude: -112.50723349838368

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Light Brown

Characterization: SM

Depth Interval Notes:

SM with gravel

0206 Depth

Grain Size: Coarse-grained

Color: Light Brown

Characterization: GM

Depth Interval Notes:

Second sample 2-5 inches available

No 0612 Depth Interval Collected

BPSOU Sediment Sampling

AT: SS-01

TRANSECT NUMBER: 4

Transect Location

Lattitude: 45.98525424513262 Longitude: -112.50693501875747

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Fine-grained

Color: Dark Brown

Characterization: ML

Depth Interval Notes:

SM/ML with gravel

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: GM

Depth Interval Notes:

0612 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: GM

Depth Interval Notes:

6-7 inches available in both samples

BPSOU Sediment Sampling

AT: SS-01

TRANSECT NUMBER: 5

Transect Location

Lattitude: 45.985408461926205 Longitude: -112.50677178858214

Transect Sample Image

Characterized By: Brooke **Characterized on:** August 12, 2021

0002 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

0206 Depth

Grain Size: Coarse-grained

Color: Dark Brown

Characterization: SM

Depth Interval Notes:

SM with 1 inch of ML, 2-5 inches available in second sample

No 0612 Depth Interval Collected

Appendix I
Sediment Data Quality Assessment

Table I2a. BTC and SBC Sediment Analytical Results – Metals
Table I2b. BTC and SBC Sediment Analytical Results - pH and TOC
Table I2c. BTC and Sediment Physical Properties - Particle Size

Table I4. Quantity of Individual Results Exceeding Precision Criteria

Table I3a. BTC & SBC Sediment Data Quality Assessment - Field Duplicates
Table I3b. BTC & SBC Sediment Data Quality Assessment - Holding Times
Table I3c. BTC & SBC Sediment Data Quality Assessment – Blanks
Table I3d. BTC & SBC Sediment Data Quality Assessment - Laboratory Quality Control

Table I6. Field and Laboratory Blank Qualification Rules

Silver Bow Creek/Butte Area NPL Site
Butte Priority Soils Operable Unit (BPSOU)

Appendix I: Data Quality Assessment
Draft 2021 Site-Wide Surface Water BPSOU Sediment Data

Atlantic Richfield

April 2022

TABLE OF CONTENTS

Page

1.0 Introduction 1

2.0 Data Quality Assurance/Quality Control 2
2.1 Field Quality Control 2
2.2 Laboratory Quality Control 2

3.0 Data Quality Assessment 3
3.1 Level A/B 3
3.2 Precision 3
3.2.1 Laboratory and Field Duplicates 4
3.3 Accuracy 4
3.3.1 Sample Preservation and Holding Time 5
3.3.2 Blanks 5
3.3.2.1 Field Blanks 6
3.3.2.2 Method Blanks 6
3.3.3 Matrix Spike and Matrix Spike Duplicate 7
3.3.4 Laboratory Control Spike and Laboratory Control Spike Duplicate 7
3.4 Representativeness 7
3.5 Completeness 8
3.6 Comparability 8
3.7 Sensitivity 8
3.8 Data Usability 9

4.0 Data Assessment Summary 9

5.0 References 11

LIST OF TABLES

Table I1 - Sediment Sampling Standard Operating Procedures 2
Table I2a-c – BTC & SBC Sediment Analytical Results (see Tables section) 3
Table I3a-d – BTC & SBC Sediment Data Quality Assessment (see Tables section) 3
Table I4 - Quantity of Individual Analyses Qualified for Exceeding Precision Criteria 4
Table I5 - Quantity of Individual Analyses Qualified for Holding Time Exceedances & Improper Preservation 5
Table I6 - Field and Laboratory Blank Qualification Rules 6
Table I7 – Quantity of Individual Analyses Qualified for Field Blank Detections 6
Table I8 - Quantity of Individual Analyses Qualified for Method Blank Detections 6
Table I9 - Quantity of Individual Analyses Qualified for MS/MSD % Recovery 7
Table I10 - Quantity of Individual Analyses Qualified for LCS % Recovery 7
Table I11 - Quality Status for Sediment Analyses 9

LIST OF ATTACHMENTS

Attachment A Laboratory and Field Data Validation Checklists
Attachment B Level A/B Checklist

ABBREVIATIONS AND ACRONYMS

ASA	American Society of Agronomy
ARCO	Atlantic Richfield Company
BMP	Best Management Practices
BPSOU	Butte Priority Soils Operable Unit
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CFRSSI	Clark Fork River Superfund Site Investigation
DM/DV	Data Management/Data Validation
DQA	Data Quality Assessment
DQO	Data Quality Objectives
E	Enforcement Quality
EPA	Environmental Protection Agency
FB	Field Blank
FD	Field Duplicate
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IS	Internal Standard
LAP	Laboratory Analytical Protocol
LCS	Laboratory Control Samples
LR	Laboratory Replicate
MB	Method Blank
MTDEQ	Montana Department of Environmental Quality
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NFG	National Functional Guidelines for Inorganic Superfund Methods Data Review
PARCCS	Precision, Accuracy, Completeness, Comparability, Sensitivity
PEC	Probably Effects Concentrations
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
R	Rejected Quality
RL	Reporting Limit
RPD	Relative Percent Difference
S	Screening Quality
SOP	Standard Operating Procedure
SRM	Standard Reference Materials
SW	Surface Water
TOC	Total Organic Carbon

1.0 INTRODUCTION

The Butte Priority Soils Operable Unit (BPSOU) Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period (Atlantic Richfield, 2020) (QAPP) states that sediment data collected in association with the BPSOU must meet the Data Quality Objectives (DQOs) for BPSOU streambed sediment monitoring. The DQOs of the collection effort are that any data collected must be of sufficient quality to:

- Determine if sediment sample concentrations exceed Probable Effects Concentrations (PECs) at specific sampling locations and depths within the BPSOU and in background/reference reaches upgradient of the BPSOU; and
- Evaluate trends in streambed sediment sample concentrations at specific locations and depths within the BPSOU and in background/reference reaches upgradient of the BPSOU.

Sediment data collected under the QAPP is intended to establish interim monitoring period conditions of sediment PEC concentrations for locations upgradient, within, and at the terminus of the BPSOU on an annual basis.

To ensure data collected are of the quality required, sediment sampling, data validation, and reporting were performed in accordance with the following Clark Fork River Superfund Site Investigations (CFRSSI) regional control documents (ARCO, 2014):

- CFRSSI Laboratory Analytical Protocol (LAP) (ARCO, 1992a);
- CFRSSI Data Management/Data Validation Plan (DM/DVP) Addendum (ARCO, 2000a);
- CFRSSI Standard Operating Procedures (ARCO, 1992c); and
- CFRSSI Pilot Data Summary Report for Organic and Inorganic Data Addendum (ARCO, 2000b).

The regional control documents have been approved by the Environmental Protection Agency (EPA) and are used to guide the collection, reduction, quality determination and reporting of data during BPSOU sediment sampling. Data validation procedures for all data collected by TREC throughout 2021 are outlined in the TREC Data Validation Guidelines for Inorganic Chemistry (TREC, 2021). This is a dynamic document, incorporating CFRSSI regional control documents (as listed above), National Functional Guidelines for Inorganic Superfund Methods Data Review (NFGs) (EPA, 2020), and the Montana Department of Environmental Quality Guidance Checklist (MTDEQ, 2010).

Sediment sample collection, including sample handling, preservation, custody, field quality control samples, documentation, and other associated activities were completed in compliance with the CFRSSI standard operating procedures (SOPs) listed in Table I1 below.

Table I1 - Sediment Sampling Standard Operating Procedures

Reference Number	Title, Revision Date	Originating Organization
G-4	Field Logbook/Photographs	ARCO
G-5	Sample Packaging and Shipping	ARCO
G-6	Field Quality Control Samples	ARCO
G-7	Sample Custody	ARCO
SOP G-8	Decontamination of Equipment Used to Sample Soil and Water	ARCO
SOP SS-3	Sediment Sampling Streams, Ponds and Lakes	ARCO
SOP SS-6	Compositing of Soil Sample	ARCO

2.0 DATA QUALITY ASSURANCE/QUALITY CONTROL

Quality assurance and quality control (QA/QC) procedures incorporate field and laboratory quality control measures which determine the error introduced into sampling and analyses procedures by personnel and equipment.

2.1 Field Quality Control

Required field quality control (QC) samples consisted of field duplicate and field blank (FB) samples collected at a frequency of one duplicate and one blank for every 20 natural samples. Natural, duplicate, and blank samples were submitted to the laboratory in a single delivery group, with field duplicate sample analysis being identical to natural sample analysis. FBs were not analyzed for grain size or pH, otherwise FB sample analysis was identical to natural sample analysis. Eight natural samples were collected, thus one field duplicate and one FB sample were collected.

All collection and preparation of samples were completed in accordance with applicable CFRSSI SOPs. Inter-laboratory splits and standard reference materials (SRM) were not identified for collection under the QAPP.

2.2 Laboratory Quality Control

Pace Analytical Services of Minneapolis, Minnesota was contracted to analyze sediment samples. To confirm that laboratory analyses and QA/QC procedures were performed per laboratory contract agreements, data validation was performed on 100% of the collected data. Data validation followed TREC's data validation guidelines which incorporate NFG validation guidelines but align with method-specific criteria.

3.0 DATA QUALITY ASSESSMENT

Data quality assessment (DQA) was performed to determine if the DQOs identified in the QAPP have been satisfied. The DQA process is outlined in EPA Guidance on Systemic Planning Using the Data Quality Objectives Process (EPA, 2006).

Laboratory analyses, along with field QC samples, were validated, and qualifiers were applied as appropriate. To review data for completeness and assign Level A/B status, field logbook documentation, field forms, and sample chain of custody forms were reviewed. The sampling team was also available for questioning when clarification was needed. Next, data precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) were reviewed, and qualifiers were applied to data where necessary. Based on the DQA process, data were assigned to one of three data utilization categories: enforcement quality, screening quality, and rejected data. Enforcement quality (unrestricted use) data result from and were supported by rigorous sampling, analysis, and documentation protocols. Screening quality data did not meet applicable sampling and/or analytical QA/QC and/or documentation requirements. Rejected data may result from inadequate sampling, analysis, and/or documentation procedures, and are not usable. Data validation checklists are provided as Attachment A to this appendix.

Sample results for BTC and SBC sediment are presented i*n* Table I2a-c. These tables present total recoverable metals, pH and total organic carbon (TOC) results, along with physical properties. Data quality assessment results are presented in Table I3a-d. These tables present field duplicate results, holding times, field blank results and laboratory quality control data for applicable samples. Table I4 through Table I10 below present the number of analyses qualified for QC samples that did not meet acceptance criteria. Each table presents the total number of results assessed. Note that the number of results assessed differs in these tables because field and laboratory QC sample requirements are not the same for all analyses. Table I4 through Table I10, as well as Table I11 present counts only for natural samples.

Table I2a-c – BTC & SBC Sediment Analytical Results (see Tables section)

Table I3a-d – BTC & SBC Sediment Data Quality Assessment (see Tables section)

3.1 Level A/B

Level A/B review was applied to sample collection and documentation records, ensuring CFRSSI protocols were followed. The data were assessed using the Level A/B screening checklist provided in the CFRSSI Pilot Data Summary Report Addendum (ARCO, 2000b). Completed Level A/B checklists are provided as Attachment B to this appendix. Samples that meet Level A status only are assessed as Level A and samples that meet both Level A and Level B status are assessed as Level B. All sediment samples met Level B status as shown in tables with analytical results.

3.2 Precision

Precision is the level of agreement among repeated measurements of the same characteristic. There are two general forms of uncertainty. The first is the random error component of the data collection process. The second is inherent stochastic variability, which cannot be eliminated but can be described.

Combined laboratory and field precision are evaluated by collecting and analyzing field duplicate samples and calculating variance between the samples. Variance was calculated as relative percent

difference (RPD). For sediment sample results ≥5X the reporting limit (RL), acceptable field precision is a RPDs are ≤ 35%; while acceptable field precision for results <5X the RL is a difference between the natural and duplicate sample result (delta) ≤2X the RL. For laboratory duplicates analyzed by EPA 7471B (mercury) and EPA 6020B (metals) acceptable precision is a RPDs are ≤ 35%. For mercury and metals results <5X the RL, acceptable analytical precision is a difference between the natural and duplicate sample result (delta) ≤2X the RL. Acceptable analytical precision for pH, particle size, and total organic carbon (TOC) determination is a RPD ≤ 20% for results ≥5X the RL and a delta ≤ the RL for results <5X the RL.

3.2.1 Laboratory and Field Duplicates

All analytical results were assessed for field and laboratory precision. Laboratory analytical precision was evaluated by analyzing matrix spike/matrix spike duplicate (MS/MSD) samples and laboratory duplicate samples (LDS), and then calculating the RPD for corresponding results. Field precision was evaluated by calculating the RPD between duplicate composite samples collected in succession at adjacent sub-sample locations, or comparing the delta between the samples, as applicable. Table I4 presents the quantity of analyses qualified for laboratory precision, field precision, the total number of sample results assessed for precision, and percentages of qualified data. Eight pH sample results were qualified, assigned a validation code of "RPD", and assigned screening status due to the laboratory not analyzing a laboratory replicate. One TOC result, one lead result, and one percent silt result were qualified for laboratory precision, assigned a validation code of "RPD", and assigned screening status. One TOC result was qualified for field precision, assigned a validation code of "FD", and assigned screening. Because there is considerable matrix dissimilarity among sediment samples collected in different stream reaches, only the parent samples used for the applicable duplicate samples were qualified. Field duplicate results are presented in Table I3a.

Table I4 - Quantity of Individual Analyses Qualified for Exceeding Precision Criteria

Matrix	Qualified for Lab Precision (RPD)	Qualified for Field Precision (FD)	Total Assessed for Precision	% RPD	%FD
Sediment	10	1	83	12.0%	1.2%

Table I3a BPSPOU 2021 Sediment Data Quality Assessment – Field Duplicates (see Tables section)

3.3 Accuracy

Accuracy is the degree of difference between the measured or calculated value and the true value. It is a measure of the bias or systematic error of the entire data collection process. The QAPP does not require submittal of SRM samples, thus field accuracy was evaluated by use of FBs only. Laboratory accuracy was based on analysis of method blanks (MB), MS/MSD sample recoveries, and laboratory control samples (LCS) recoveries. Laboratory accuracy is also assessed on results

of initial calibration verifications (ICV), continuing calibration verifications (CCV), and internal standards (IS), as applicable to the analytical method. Although ICV, CCV, and IS results are completed for all applicable analyses, their results are reported only in Limited Plus and Full data packages. All sediment data packages were Limited; however, the project narrative stated there were no problems with these laboratory calibration samples.

Proper sample handling, including correct preservation and analysis within method holding times, also affects accuracy.

3.3.1 Sample Preservation and Holding Time

The laboratory deliverable was reviewed to ensure all samples were properly temperature preserved and analyzed within the method-specific technical holding time. Since holding time is not applicable to saturated paste pH analysis (USDA 60-21A) and particle size determination (ASTM D522), holding time and preservation were applicable to only 55 analytical results. All samples were received at the laboratory within preservation criteria (0-6 degrees Celsius) and analyzed within method holding time as presented in Table I5. Table I3b presents the sample collection and analysis dates for each sediment analysis performed.

Table I5 - Quantity of Individual Analyses Qualified for Holding Time Exceedances & Improper Preservation

Matrix	Qualified for Holding Time (HT)	Qualified for Improper Preservation (IP)	Total Assessed for HT/IP	% HT	% IP
Sediment	0	0	55	0	0

3.3.2 Blanks

Field blanks (FB) and laboratory method blanks (MB) were analyzed to assess artifacts introduced during sampling, transport and/or analysis that may affect the accuracy of the data. In addition, as applicable to the analytical method, initial calibration blanks (ICBs) and continuing calibration blanks (CCBs) are used by the laboratory to verify that sample concentrations are accurately measured throughout the analytical run. ICB and CCB results are not reported in Limited data packages, but the project narrative did not indicate any problems with laboratory calibration blank samples. Table I3c presents field blank results, while Table I3d includes laboratory MB results. Neither field nor laboratory blanks are applicable to pH analysis and particle size determination, thus there are no blank results for those determinations in Table I3c and Table I3d.

Laboratory and field blanks are assessed according to the rules in Table I6 which is reproduced from the TREC's Data Validation Guidelines for Inorganic Chemistry. Because MDLs are calculated statistically, results within one standard deviation of the MDL should be considered non-detects. Data validation packages do not include the standard deviations derived from MDL studies, thus an Agency approved alternative approach is to consider detections ≤ 1.5X MDL as being within acceptance criteria.

Table I6 - Field and Laboratory Blank Qualification Rules

Blank Result	Sample Result	Action
≥ MDL, but ≤ 1.5x MDL	Any	No Action
> 1.5x MDL	< MDL (non-detect)	No Action
	≥ MDL but ≤ RL	Qualify results as estimated non-detect **(UJ)**
	> RL but ≤ 10x FB result	Qualify results as estimated high **(J+)**
	>10x FB result	No Action

3.3.2.1 Field Blanks

Field blanks were analyzed to assess artifacts introduced during sampling and transport that may affect the accuracy of the data. Field blanks consisted of silica sand purchased at a hardware store. The sand was poured over sampling equipment and then placed in the sample containers. One FB was prepared for the 8 natural samples collected.

No data were qualified based on FB detections, as shown in Table I7.

Table I7 – Quantity of Individual Analyses Qualified for Field Blank Detections

Matrix	Qualified for FB Detections (FB)	Total Assessed for FB	%FB
Sediment	0	55	0%

3.3.2.2 Method Blanks

All MB results were non-detect; thus, no data were qualified based on laboratory blank detections as shown in Table I8.

Table I8 - Quantity of Individual Analyses Qualified for Method Blank Detections

Matrix	Qualified for MB Detections (MB)	Total Assessed for MB	%MB
Sediment	0	55	0%

3.3.3 Matrix Spike and Matrix Spike Duplicate

Mercury, metals, and TOC results are assessed for MS/MSD recoveries. In each case where MS/MSD recoveries did not meet acceptance criteria, associated sample results were qualified as estimated and natural sample results assigned screening quality. Three natural sample data points were qualified as estimated for MS/MSD recoveries. Results qualified for MS/MSD were assigned an "MS" data validation code and given screening quality. Affected analytes were total arsenic, total copper, and total lead. Because MS/MSD samples assess matrix interference and there is considerable matrix dissimilarity among sediment samples collected in different stream reaches, only the parent samples used for the applicable MS/MSD samples were qualified. Table I9 summarizes the number of analyses qualified for MS/MSD recoveries.

Table I9 - Quantity of Individual Analyses Qualified for MS/MSD % Recovery

Matrix	Qualified for MS/MSD %R	Total Assessed for MS %R	% MS
Sediment	3	55	5.4%

3.3.4 Laboratory Control Spike and Laboratory Control Spike Duplicate

All analyses are assessed for LCS recoveries, and as shown in Table I10, all LCS recoveries met acceptance criteria.

Table I10 - Quantity of Individual Analyses Qualified for LCS % Recovery

Matrix	Qualified for LCS %R (LCS)	Total Analyses/Total Analyses Assessed for LCS %R	% LCS
Sediment	0	83	0%

3.4 Representativeness

Data representativeness is defined as the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or environmental conditions. Representativeness is a qualitative parameter that is most concerned with the proper design of the sampling program. Representativeness of samples was achieved through the careful selection of sampling locations and methods. The QAPP incorporates a monitoring network designed to provide samples that are representative of the medium being sampled, as well as sufficient samples to meet the project DQOs. Sample representativeness may also be evaluated using the RPDs for field duplicate results. Each sediment sample collected represents a five-point composite sample collected along a 500-ft stream reach. Thus, the data is believed to be representative of streambed sediment near the terminus of the BPSOU, within the BPSOU, and at background/reference reaches upgradient of BPSOU.

3.5 Completeness

Completeness refers to the amount of usable data produced during a sampling and analysis program compared to the amount that was anticipated to be produced. The sediment sampling procedures established in the QAPP are designed to ensure, to the extent possible, that data shall be valid and usable. To achieve this objective, every effort was made to collect each required sample and to avoid sample loss. The QAPP completeness goal is 95% for each matrix. Those data that are validated and need no qualification (enforcement quality data) or are qualified as estimated data (screening quality data), are considered usable. Rejected data are not considered usable.

In 2021, sediment samples were collected August 12 and 13 along the three stream reaches presented in Table 5 of the main body of this Data Summary Report. Three depth intervals were targeted for sediment sampling, 0-2 inches, 2-6 inches, and 6-12 inches, but as explained in the QAPP, collection of the targeted depth intervals is limited by the sediment depth within each sampling reach. Thus, the planned number of natural samples ranged from a minimum of three and a maximum of nine spatially composited samples. One of the three stream reaches sampled produced 0-2 inch and 2-6 inch samples, while it was possible to retrieve a 6-12 inch sample within two stream reaches. Since an exact number of samples is not specified in the QAPP, sediment sampling completeness is assessed by comparing the number of analyses that were completed and not rejected, to the number of analyses that should have been completed, based on the samples that were collected. One sample did not have adequate volume for TOC, pH, and particle size analysis; hence, of the 88 intended analyses, only 83 were completed. No sediment data points were rejected, thus completeness was 94.3%.

3.6 Comparability

Consistency in the acquisition, handling and analysis of samples is necessary for comparing results. Sample locations and parameters consistent with previous studies and use of standard EPA approved analytical methods were used to facilitate comparability of results with sediment samples collected in a similar manner within the BPSOU. The results of analyses obtained in 2021 were compared with the results obtained in 2020, the only other recent year in which the three 2021 stream reaches were sampled. Generally, 2021 results were comparable to 2020 results for all analytical parameters; however 2020 TOC results were notably higher than 2021 TOC results. Six of the seven TOC results from 2020 sampling were 1.5 to 6.0 times higher than 2021 results, with the SS-06A 2-6 inch interval 2020 TOC result being 85 times higher than the 2021 result. The TOC analytical method employed in the 2021, along with the analytical laboratory, were identical to that used in 2020. Given the variable nature of the matrix and the transient nature of stream sediment, combined with the use of consistent sample collection and analysis methods, the 2021 TOC results, and all other analytical results, were accepted without comparability qualifications.

3.7 Sensitivity

Sensitivity refers to the capability to quantify an analyte at a given concentration, and this parameter is associated with the method detection limits and the project reporting limits. The desired analytical sensitivity are method detection limits less than the applicable sediment PECs (for arsenic, cadmium, copper, lead, mercury, and zinc) and quantification limits that will allow geochemical interpretation. Project sensitivity was acceptable.

3.8 Data Usability

The three data utilization categories described in the DM/DV Plan include: enforcement quality data, screening quality data, and rejected data. Enforcement quality data meet all QA/QC and documentation requirements. Screening quality data do not meet the applicable QA/QC requirements and/or documentation requirements. Rejected data may result from inappropriate sampling, analysis, or documentation procedures and are not usable. Enforcement or screening quality data are utilized for evaluation of sediment quality.

Ten sediment samples were collected in 2021, resulting in 109 data points. These 109 data points include field duplicates, field blanks, and soil particle density results for samples analyzed for grain size distribution. Although soil particle density is reported, it is not assessed for data quality. Soil particle density classifies the sediment type based on % clay, % silt, % sand and has neither field nor laboratory QC directly associated with it. Only natural sample results are assigned a quality; thus of the 109 reported data points, 83 were assigned a quality. As shown in Table I11, 70 data points were assessed as enforcement quality, 13 were assessed as screening quality, and none were rejected. Overall, 100% of the collected data points were usable.

Table I11 - Quality Status for Sediment Analyses

Monitoring Type	Natural Samples	Enforcement Quality (E)	Screening Quality (S)	%E	%S
Sediment	83	70	13	84	16

4.0 DATA ASSESSMENT SUMMARY

The quality of data was evaluated based on laboratory and field QC analyses. Data validation and data assessment were performed by TREC, Inc., located in Butte, Montana, in conformance with the CFRSSI DM/DV Plan (ARCO, 1992a and 2000a) and the TREC data validation guidelines.

Laboratory analyses and QA/QC procedures were validated, and qualifiers were applied as appropriate. To review data for completeness and assign Level A/B review status, field logbook documentation and sample chain of custody forms were reviewed. The sampling team was also available for questioning when clarification was needed. Next, data precision, accuracy, representativeness, completeness, comparability, and sensitivity were assessed, and qualifiers were applied to data where necessary. Data were also tabulated and identified as being of either enforcement or screening quality, or unusable (rejected).

There was a total of 83 natural sample data points assessed for 2021 sediment sampling. Of these, 70 met enforcement quality, 13 met screening quality and none were rejected.

1. The 70 sediment sample data points (84% of the total) which meet enforcement quality standards can be categorized as definitive data with unrestricted use. They are supported by rigorous sampling and analyses protocols, as well as Level B documentation.

2. The 13 sediment sample data points (16% of the total) which meet screening quality standards can be categorized as data whose associated numerical values are estimated.

Copies of sample chain of custodies and field quality control checklists associated with the data presented in this assessment are included as attachments to this appendix. Laboratory reports are provided in Appendix J. Original field books are retained at TREC's Butte, Montana office.

5.0 REFERENCES

ARCO, 1992a. Clark Fork River Superfund Site Investigations Laboratory Analytical Protocol. April 1992.

ARCO, 1992b. Clark Fork River Superfund Site Investigations Quality Assurance Project Plan. May 1992.

ARCO, 1992c. Clark Fork River Superfund Site Investigations Standard Operating Procedures. September 1992.

ARCO, 2000a. Clark Fork River Superfund Site Investigations Data Management/Data Validation Plan Addendum. July 2000.

ARCO, 2000b. Clark Fork River Superfund Site Investigations Pilot Data Report Addendum. July 2000.

Atlantic Richfield. 2020. Silver Bow Creek/Butte Area NPL Site Draft Butte Priority Soils Operable Unit Final Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020 and 2021 Monitoring Period. Atlantic Richfield, October 2020.

EPA, 2006. EPA Guidance on Systematic Planning Using the Data Quality Objectives Process. EPA QA/G-4. February 2006.

EPA, 2020. National Functional Guidelines for Inorganic Superfund Methods Data Review. November 2020.

MTDEQ, 2010. Montana Department of Environmental Quality Data Validation Guidelines for Evaluating Analytical Data. August 5, 2010.

TREC, 2021. Data Validation Guidelines for Inorganic Chemistry. December 2021

Tables

Table I2 - BTC and SBC Sediment Analytical Results
Table I3a-d - BTC and SBC Sediment Data Quality Assessment

Table I2a. BTC and SBC Sediment Analytical Results - Metals

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	As (mg/kg)	Lab Q	Val Q	DV Code	Status	Cd (mg/kg)	Lab Q	Val Q	DV Code	Status	Cu (mg/kg)	Lab Q	Val Q	DV Code	Status	Hg (mg/kg)	Lab Q	Val Q	DV Code	Status
10574875	SS-06G	SED001-081221-0002	10574875005	2021-08-12 10:20	FG	B	22.7	M1	J+	MS	S	0.91				E	185	R1,M1	J	MS	S	0.062				E
10574875	SS-06G	SED002-081221-0206	10574875006	2021-08-12 12:19	FG	B	26				E	1				E	135				E	0.05				E
10574875	SS-06A	SED003-081221-0002	10574875007	2021-08-12 13:40	FG	B	52.2				E	2				E	308				E	0.35				E
10574875	SS-06A	SED004-081221-0206	10574875008	2021-08-12 14:00	FG	B	36.5				E	1.8				E	197				E	0.5				E
10574875	SS-06A	SED005-081221-0612	10574875009	2021-08-12 14:02	FG	B	36.1				E	1.6				E	195				E	0.15				E
10574875	SS-01	SED006-081221-0002	10574875010	2021-08-12 15:00	FG	B	7				E	0.36				E	53.3				E	0.024				E
10574875	SS-01	SED007-081221-0206	10574875001	2021-08-12 15:02	FG-N	B	7.6				E	0.37				E	74.4				E	0.027				E
10574875	SS-01	SED008-081221-0612	10574875002	2021-08-12 15:04	FG	B	9.3				E	0.5				E	84.6				E	0.053				E
10574875	SS-01	SED010-081221-0206	10574875003	2021-08-12 15:02	FG-D	B	6.9					0.31					55.5					0.023				
10574875	SEQC	SED012-081321	10574875004	2021-08-13 09:06	FB	B	0.23	J				0.03	U				0.23	U				0.0079	U			

See Table A3 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table I2a. BTC and SBC Sediment Analytical Results - Metals

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	Pb (mg/kg)	Lab Q	Val Q	DV Code	Status	Zn (mg/kg)	Lab Q	Val Q	DV Code	Status
10574875	SS-06G	SED001-081221-0002	10574875005	2021-08-12 10:20	FG	B	69.4	R1,M1	J+	MS,RPD	S	466	R1,P6			E
10574875	SS-06G	SED002-081221-0206	10574875006	2021-08-12 12:19	FG	B	110				E	474				E
10574875	SS-06A	SED003-081221-0002	10574875007	2021-08-12 13:40	FG	B	141				E	942				E
10574875	SS-06A	SED004-081221-0206	10574875008	2021-08-12 14:00	FG	B	125				E	914				E
10574875	SS-06A	SED005-081221-0612	10574875009	2021-08-12 14:02	FG	B	108				E	713				E
10574875	SS-01	SED006-081221-0002	10574875010	2021-08-12 15:00	FG	B	24.9				E	149				E
10574875	SS-01	SED007-081221-0206	10574875001	2021-08-12 15:02	FG-N	B	22.2				E	153				E
10574875	SS-01	SED008-081221-0612	10574875002	2021-08-12 15:04	FG	B	27.3				E	194				E
10574875	SS-01	SED010-081221-0206	10574875003	2021-08-12 15:02	FG-D	B	23.8					129				
10574875	SEQC	SED012-081321	10574875004	2021-08-13 09:06	FB	B	0.09	J				0.86	U			

See Table A3 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table I2b. BTC and SBC Sediment Analytical Results - pH and TOC

SDG	Location	Field Sample ID	Lab Sample ID	Sample Date	Sample Type	Level A/B	PH (SU)	Lab Q	Val Q	DV Code	Status	TOC (mg/kg)	Lab Q	Val Q	DV Code	Status
10574875	SS-06G	SED001-081221-0002	10574875005	2021-08-12 10:20	FG	B						5700				E
S2109013	SS-06G	SED001-081221-0002	S2109013-004A	2021-08-12 10:20	FG	B	6.9		J	RPD	S					
10574875	SS-06G	SED002-081221-0206	10574875006	2021-08-12 12:19	FG	B						3270				E
S2109013	SS-06G	SED002-081221-0206	S2109013-005A	2021-08-12 12:19	FG	B	7.2		J	RPD	S					
10574875	SS-06A	SED003-081221-0002	10574875007	2021-08-12 13:40	FG	B						7680				E
S2109013	SS-06A	SED003-081221-0002	S2109013-006A	2021-08-12 13:40	FG	B	7.1		J	RPD	S					
10574875	SS-06A	SED004-081221-0206	10574875008	2021-08-12 14:00	FG	B						4680	R1	J	RPD	S
S2109013	SS-06A	SED004-081221-0206	S2109013-007A	2021-08-12 14:00	FG	B	7.1		J	RPD	S					
10574875	SS-01	SED006-081221-0002	10574875010	2021-08-12 15:00	FG	B						8540				E
S2109013	SS-01	SED006-081221-0002	S2109013-008A	2021-08-12 15:00	FG	B	7.1		J	RPD	S					
10574875	SS-01	SED007-081221-0206	10574875001	2021-08-12 15:02	FG-N	B						8410		J	FD	S
S2109013	SS-01	SED007-081221-0206	S2109013-001A	2021-08-12 15:02	FG-N	B	7.1		J	RPD	S					
10574875	SS-01	SED008-081221-0612	10574875002	2021-08-12 15:04	FG	B						14800				E
S2109013	SS-01	SED008-081221-0612	S2109013-002A	2021-08-12 15:04	FG	B	6.9		J	RPD	S					
10574875	SS-01	SED010-081221-0206	10574875003	2021-08-12 15:02	FG-D	B						4720		J	FD	
S2109013	SS-01	SED010-081221-0206	S2109013-003A	2021-08-12 15:02	FG-D	B	7.2									
10574875	SEQC	SED012-081321	10574875004	2021-08-13 09:06	FB	B						30.5	J			

See Table A3 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table I2c. BTC and Sediment Physical Properties - Particle Size

SDG	Location	Field Sample ID	Lab Sample ID	Date Collected	Sample Type	Level A/B	Clay (%)	Lab Q	Val Q	DV Code	Status	Sand (%)	Lab Q	Val Q	DV Code	Status	Silt (%)	Lab Q	Val Q	DV Code	Status	Texture
S2109013	SS-06G	SED001-081221-0002	S2109013-004A	2021-08-12 10:20	FG	B	4				E	92				E	4				E	Sand
S2109013	SS-06G	SED002-081221-0206	S2109013-005A	2021-08-12 12:19	FG	B	4				E	91				E	5				E	Sand
S2109013	SS-06A	SED003-081221-0002	S2109013-006A	2021-08-12 13:40	FG	B	5				E	90				E	5				E	Sand
S2109013	SS-06A	SED004-081221-0206	S2109013-007A	2021-08-12 14:00	FG	B	3				E	91				E	6				E	Sand
S2109013	SS-01	SED006-081221-0002	S2109013-008A	2021-08-12 15:00	FG	B	6				E	90				E	4				E	Sand
S2109013	SS-01	SED007-081221-0206	S2109013-001A	2021-08-12 15:02	FG-N	B	6				E	87				E	7		J	RPD	S	Loamy Sand
S2109013	SS-01	SED008-081221-0612	S2109013-002A	2021-08-12 15:04	FG	B	7				E	87				E	6				E	Loamy Sand
S2109013	SS-01	SED010-081221-0206	S2109013-003A	2021-08-12 15:02	FG-D	B	5					92					3		J	RPD		Sand

See Table A3 for Laboratory Validation qualifiers, DV codes, and Status definitions

Table I3a. 2021 BPSOU Sediment Data Quality Assessment - Field Duplicates

SDG	Lab	Location	Sample Date	Parameter	Unit	Natural Lab ID	Natural Field ID	Natural Value	Natural MDL	Natural RL	Duplicate Lab ID	Duplicate Field ID	Duplicate Value	Duplicate MDL	Duplicate RL	RPD %
10574875	PACE_MPLS	SS-01	8/12/2021	AsTR	mg/kg	10574875001	SED007-081221-0206	7.6	0.11	0.49	10574875003	SED010-081221-0206	6.9	0.1	0.48	9.66
10574875	PACE_MPLS	SS-01	8/13/2021	CdTR	mg/kg	10574875001	SED007-081221-0206	0.37	0.03	0.078	10574875003	SED010-081221-0206	0.31	0.03	0.076	17.65
10574875	PACE_MPLS	SS-01	8/14/2021	CuTR	mg/kg	10574875001	SED007-081221-0206	74.4	0.23	0.97	10574875003	SED010-081221-0206	55.5	0.23	0.95	29.1
10574875	PACE_MPLS	SS-01	8/15/2021	HgTR	mg/kg	10574875001	SED007-081221-0206	0.027	0.0084	0.019	10574875003	SED010-081221-0206	0.023	0.0079	0.018	16
10574875	PACE_MPLS	SS-01	8/16/2021	PbTR	mg/kg	10574875001	SED007-081221-0206	22.2	0.029	0.19	10574875003	SED010-081221-0206	23.8	0.028	0.19	6.96
10574875	PACE_MTJ	SS-01	8/17/2021	TOC	mg/kg	10574875001	SED007-081221-0206	8410	51	200	10574875003	SED010-081221-0206	4720	51	200	56.21
10574875	PACE_MPLS	SS-01	8/18/2021	ZnTR	mg/kg	10574875001	SED007-081221-0206	153	0.87	4.9	10574875003	SED010-081221-0206	129	0.86	4.8	17.02
S2109013	PACE_SHE	SS-01	8/19/2021	Clay (<2 um)	%	S2109013-001A	SED007-081221-0206	6	0.1	0.1	S2109013-003A	SED010-081221-0206	5	0.1	0.1	18.18
S2109013	PACE_SHE	SS-01	8/20/2021	PH_SAT	SU	S2109013-001A	SED007-081221-0206	7.1	0.01	0.1	S2109013-003A	SED010-081221-0206	7.2	0.01	0.1	1.4
S2109013	PACE_SHE	SS-01	8/21/2021	Sand (0.06-2.00 mm)	%	S2109013-001A	SED007-081221-0206	87	0.1	0.1	S2109013-003A	SED010-081221-0206	92	0.1	0.1	5.59
S2109013	PACE_SHE	SS-01	8/22/2021	Silt (2-60 um)	%	S2109013-001A	SED007-081221-0206	7	0.1	0.1	S2109013-003A	SED010-081221-0206	3	0.1	0.1	80

Table I3b. 2021 BPSOU Sediment Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	BatchID	Matrix	Parameter	PrepDate	PrepMethod	Analysis Date	Analysis Method	Hold Expires	DV Code
10574875	PACE_MTJ	SS-06G	SED002-081221-0206	10574875006	8/12/2021	173744	Sediment	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	2021-09-09	
10574875	PACE_MTJ	SS-01	SED008-081221-0612	10574875002	8/12/2021	173744	Sediment	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	2021-09-09	
10574875	PACE_MTJ	SS-01	SED010-081221-0206	10574875003	8/12/2021	173744	Sediment	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	2021-09-09	
10574875	PACE_MTJ	SEQC	SED012-081321	10574875004	8/13/2021	173744	Sediment	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	2021-09-10	
10574875	PACE_MTJ	SS-06A	SED003-081221-0002	10574875007	8/12/2021	173744	Sediment	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	2021-09-09	
10574875	PACE_MTJ	SS-06A	SED004-081221-0206	10574875008	8/12/2021	173744	Sediment	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	2021-09-09	
10574875	PACE_MTJ	SS-01	SED006-081221-0002	10574875010	8/12/2021	173744	Sediment	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	2021-09-09	
10574875	PACE_MTJ	SS-06G	SED001-081221-0002	10574875005	8/12/2021	173744	Sediment	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	2021-09-09	
10574875	PACE_MTJ	SS-01	SED007-081221-0206	10574875001	8/12/2021	173744	Sediment	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	2021-09-09	
10574875	PACE_MPLS	SS-06G	SED001-081221-0002	10574875005	8/12/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	8/13/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-09	
10574875	PACE_MPLS	SS-01	SED006-081221-0002	10574875010	8/12/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED005-081221-0612	10574875009	8/12/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06G	SED002-081221-0206	10574875006	8/12/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED003-081221-0002	10574875007	8/12/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED004-081221-0206	10574875008	8/12/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED010-081221-0206	10574875003	8/12/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED007-081221-0206	10574875001	8/12/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED008-081221-0612	10574875002	8/12/2021	765344	Sediment	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED008-081221-0612	10574875002	8/12/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED010-081221-0206	10574875003	8/12/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED004-081221-0206	10574875008	8/12/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	8/13/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-09	
10574875	PACE_MPLS	SS-06G	SED002-081221-0206	10574875006	8/12/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED005-081221-0612	10574875009	8/12/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED006-081221-0002	10574875010	8/12/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED007-081221-0206	10574875001	8/12/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06G	SED001-081221-0002	10574875005	8/12/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED003-081221-0002	10574875007	8/12/2021	765344	Sediment	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06G	SED001-081221-0002	10574875005	8/12/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED003-081221-0002	10574875007	8/12/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED006-081221-0002	10574875010	8/12/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED007-081221-0206	10574875001	8/12/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED008-081221-0612	10574875002	8/12/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06G	SED002-081221-0206	10574875006	8/12/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED004-081221-0206	10574875008	8/12/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED005-081221-0612	10574875009	8/12/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	8/13/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-09	
10574875	PACE_MPLS	SS-01	SED010-081221-0206	10574875003	8/12/2021	765344	Sediment	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED004-081221-0206	10574875008	8/12/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED005-081221-0612	10574875009	8/12/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	8/13/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-09	
10574875	PACE_MPLS	SS-06G	SED001-081221-0002	10574875005	8/12/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED010-081221-0206	10574875003	8/12/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06G	SED002-081221-0206	10574875006	8/12/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED003-081221-0002	10574875007	8/12/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED006-081221-0002	10574875010	8/12/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED007-081221-0206	10574875001	8/12/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED008-081221-0612	10574875002	8/12/2021	765344	Sediment	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06G	SED001-081221-0002	10574875005	8/12/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED008-081221-0612	10574875002	8/12/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED007-081221-0206	10574875001	8/12/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED006-081221-0002	10574875010	8/12/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06G	SED002-081221-0206	10574875006	8/12/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED003-081221-0002	10574875007	8/12/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	8/13/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-09	
10574875	PACE_MPLS	SS-06A	SED005-081221-0612	10574875009	8/12/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-06A	SED004-081221-0206	10574875008	8/12/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SS-01	SED010-081221-0206	10574875003	8/12/2021	765344	Sediment	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	2022-02-08	
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	8/13/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-10	
10574875	PACE_MPLS	SS-01	SED010-081221-0206	10574875003	8/12/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-09	
10574875	PACE_MPLS	SS-06G	SED001-081221-0002	10574875005	8/12/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-09	

Table I3b. 2021 BPSOU Sediment Data Quality Assessment - Holding Times

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	BatchID	Matrix	Parameter	PrepDate	PrepMethod	Analysis Date	Analysis Method	Hold Expires	DV Code
10574875	PACE_MPLS	SS-06G	SED002-081221-0206	10574875006	8/12/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-09	
10574875	PACE_MPLS	SS-06A	SED003-081221-0002	10574875007	8/12/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-09	
10574875	PACE_MPLS	SS-06A	SED004-081221-0206	10574875008	8/12/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-09	
10574875	PACE_MPLS	SS-01	SED007-081221-0206	10574875001	8/12/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-09	
10574875	PACE_MPLS	SS-01	SED008-081221-0612	10574875002	8/12/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-09	
10574875	PACE_MPLS	SS-06A	SED005-081221-0612	10574875009	8/12/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-09	
10574875	PACE_MPLS	SS-01	SED006-081221-0002	10574875010	8/12/2021	765345	Sediment	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	2021-09-09	
S2109013	PACE_SHE	SS-06A	SED004-081221-0206	S2109013-007A	8/12/2021	192901	Sediment	PH_SAT		METHOD	2021-09-08	USDA 60-21A		
S2109013	PACE_SHE	SS-01	SED008-081221-0612	S2109013-002A	8/12/2021	192901	Sediment	PH_SAT		METHOD	2021-09-08	USDA 60-21A		
S2109013	PACE_SHE	SS-06G	SED002-081221-0206	S2109013-005A	8/12/2021	192901	Sediment	PH_SAT		METHOD	2021-09-08	USDA 60-21A		
S2109013	PACE_SHE	SS-06G	SED001-081221-0002	S2109013-004A	8/12/2021	192901	Sediment	PH_SAT		METHOD	2021-09-08	USDA 60-21A		
S2109013	PACE_SHE	SS-01	SED006-081221-0002	S2109013-008A	8/12/2021	192901	Sediment	PH_SAT		METHOD	2021-09-08	USDA 60-21A		
S2109013	PACE_SHE	SS-01	SED007-081221-0206	S2109013-001A	8/12/2021	192901	Sediment	PH_SAT		METHOD	2021-09-08	USDA 60-21A		
S2109013	PACE_SHE	SS-06A	SED003-081221-0002	S2109013-006A	8/12/2021	192901	Sediment	PH_SAT		METHOD	2021-09-08	USDA 60-21A		
S2109013	PACE_SHE	SS-01	SED010-081221-0206	S2109013-003A	8/12/2021	192901	Sediment	PH_SAT		METHOD	2021-09-08	USDA 60-21A		
S2109013	PACE_SHE	SS-01	SED006-081221-0002	S2109013-008A	8/12/2021	192935	Sediment	Clay (<2 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED010-081221-0206	S2109013-003A	8/12/2021	192935	Sediment	Clay (<2 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06A	SED003-081221-0002	S2109013-006A	8/12/2021	192935	Sediment	Clay (<2 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED007-081221-0206	S2109013-001A	8/12/2021	192935	Sediment	Clay (<2 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06A	SED004-081221-0206	S2109013-007A	8/12/2021	192935	Sediment	Clay (<2 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED008-081221-0612	S2109013-002A	8/12/2021	192935	Sediment	Clay (<2 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06G	SED001-081221-0002	S2109013-004A	8/12/2021	192935	Sediment	Clay (<2 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06G	SED002-081221-0206	S2109013-005A	8/12/2021	192935	Sediment	Clay (<2 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06G	SED002-081221-0206	S2109013-005A	8/12/2021	192935	Sediment	Sand (0.06-2.00 mm)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED008-081221-0612	S2109013-002A	8/12/2021	192935	Sediment	Sand (0.06-2.00 mm)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED006-081221-0002	S2109013-008A	8/12/2021	192935	Sediment	Sand (0.06-2.00 mm)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06G	SED001-081221-0002	S2109013-004A	8/12/2021	192935	Sediment	Sand (0.06-2.00 mm)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06A	SED003-081221-0002	S2109013-006A	8/12/2021	192935	Sediment	Sand (0.06-2.00 mm)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06A	SED004-081221-0206	S2109013-007A	8/12/2021	192935	Sediment	Sand (0.06-2.00 mm)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED010-081221-0206	S2109013-003A	8/12/2021	192935	Sediment	Sand (0.06-2.00 mm)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED007-081221-0206	S2109013-001A	8/12/2021	192935	Sediment	Sand (0.06-2.00 mm)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED007-081221-0206	S2109013-001A	8/12/2021	192935	Sediment	Silt (2-60 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06A	SED004-081221-0206	S2109013-007A	8/12/2021	192935	Sediment	Silt (2-60 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06G	SED001-081221-0002	S2109013-004A	8/12/2021	192935	Sediment	Silt (2-60 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED006-081221-0002	S2109013-008A	8/12/2021	192935	Sediment	Silt (2-60 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06A	SED003-081221-0002	S2109013-006A	8/12/2021	192935	Sediment	Silt (2-60 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED008-081221-0612	S2109013-002A	8/12/2021	192935	Sediment	Silt (2-60 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED010-081221-0206	S2109013-003A	8/12/2021	192935	Sediment	Silt (2-60 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06G	SED002-081221-0206	S2109013-005A	8/12/2021	192935	Sediment	Silt (2-60 um)		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06A	SED003-081221-0002	S2109013-006A	8/12/2021	192935	Sediment	Soil Particle Density		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED006-081221-0002	S2109013-008A	8/12/2021	192935	Sediment	Soil Particle Density		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED010-081221-0206	S2109013-003A	8/12/2021	192935	Sediment	Soil Particle Density		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06A	SED004-081221-0206	S2109013-007A	8/12/2021	192935	Sediment	Soil Particle Density		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED008-081221-0612	S2109013-002A	8/12/2021	192935	Sediment	Soil Particle Density		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-01	SED007-081221-0206	S2109013-001A	8/12/2021	192935	Sediment	Soil Particle Density		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06G	SED001-081221-0002	S2109013-004A	8/12/2021	192935	Sediment	Soil Particle Density		METHOD	2021-09-08	ASTM D422		
S2109013	PACE_SHE	SS-06G	SED002-081221-0206	S2109013-005A	8/12/2021	192935	Sediment	Soil Particle Density		METHOD	2021-09-08	ASTM D422		

Table I3c. 2021 BPSOU Sediment Data Quality Assessment - Blanks

SDG	Lab	Location	Field Sample ID	Lab Sample ID	Sample Date	Batch ID	Parameter	Prep Date	Prep Method	Analysis Date	Analysis Method	Unit	Result (mg/L)	MDL (mg/L)	RL (mg/L)	Lab Q	DV Q	DV Code
10574875	PACE_MTJ	SEQC	SED012-081321	10574875004	2021-08-13	173744	TOC	2021-09-09	ASTM F1647	2021-09-09	Walkley Black	mg/kg	30.5	25.5	100	J		
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	2021-08-13	765344	AsTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	mg/kg	0.23	0.1	0.48	J		
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	2021-08-13	765344	CdTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	mg/kg	0.03	0.03	0.076	U		
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	2021-08-13	765344	CuTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	mg/kg	0.23	0.23	0.95	U		
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	2021-08-13	765344	PbTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	mg/kg	0.09	0.028	0.19	J		
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	2021-08-13	765344	ZnTR	2021-09-09	SW-846 3050B	2021-09-10	SW-846 6020B	mg/kg	0.86	0.86	4.8	U		
10574875	PACE_MPLS	SEQC	SED012-081321	10574875004	2021-08-13	765345	HgTR	2021-09-08	SW-846 7471B	2021-09-09	SW-846 7471B	mg/kg	0.0079	0.0079	0.018	U		

Table I3d. 2021 BPSOU Sediment Data Quality Assessment - Laboratory Quality Assessment

SDG	Batch ID	QC Sample ID	Lab Sample ID	Parent Sample ID	QC Sample Type	Test Type	Param	Prep Date	Prep Method	Analysis Date	Analysis Method	Parent Value	Spike Value	QC Sample Value	MDL	RL	Unit	%R	RPD %	Lab Lower %R Limit	Lab Upper %R Limit	Lab %RPD Limit
10574875	765344	4079363BLANK_10574875	4079363		MB	INITIAL	AsTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:54	SW-846 6020B			0.00011	0.00011	0.00049	mg/kg					
10574875	765344	4079364LCS_10574875	4079364		LCS	INITIAL	AsTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:58	SW-846 6020B		0.049	0.0569	0.00011	0.00049	mg/kg	116		80	120	
10574875	765344	SED001-081221-0002MS	4079365	SED001-081221-0002	MS	INITIAL	AsTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:38	SW-846 6020B	0.0227	0.0476	0.0833	0.0001	0.00048	mg/kg	127		75	125	
10574875	765344	SED001-081221-0002MSD	4079366	SED001-081221-0002	MSD	INITIAL	AsTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:41	SW-846 6020B	0.0227	0.0481	0.0825	0.0001	0.00048	mg/kg	124	1	75	125	20
10574875	765344	SED001-081221-0002MSD	4079366	SED001-081221-0002	MSD	INITIAL	CdTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:41	SW-846 6020B	0.00091	0.0481	0.0529	0.00003	0.000077	mg/kg	108	2	75	125	20
10574875	765344	SED001-081221-0002MS	4079365	SED001-081221-0002	MS	INITIAL	CdTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:38	SW-846 6020B	0.00091	0.0476	0.0516	0.00003	0.000076	mg/kg	106		75	125	
10574875	765344	4079364LCS_10574875	4079364		LCS	INITIAL	CdTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:58	SW-846 6020B		0.049	0.0544	0.000031	0.000078	mg/kg	111		80	120	
10574875	765344	4079363BLANK_10574875	4079363		MB	INITIAL	CdTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:54	SW-846 6020B			0.000031	0.000031	0.000078	mg/kg					
10574875	765344	4079363BLANK_10574875	4079363		MB	INITIAL	CuTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:54	SW-846 6020B			0.00024	0.00024	0.00098	mg/kg					
10574875	765344	4079364LCS_10574875	4079364		LCS	INITIAL	CuTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:58	SW-846 6020B		0.049	0.0569	0.00024	0.00098	mg/kg	116		80	120	
10574875	765344	SED001-081221-0002MSD	4079366	SED001-081221-0002	MSD	INITIAL	CuTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:41	SW-846 6020B	0.185	0.0481	0.254	0.00023	0.00096	mg/kg	143	29	75	125	20
10574875	765344	SED001-081221-0002MS	4079365	SED001-081221-0002	MS	INITIAL	CuTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:38	SW-846 6020B	0.185	0.0476	0.19	0.00023	0.00095	mg/kg	11		75	125	
10574875	765345	SED001-081221-0002MSD	4079381	SED001-081221-0002	MSD	INITIAL	HgTR	2021-09-08 01:23	SW-846 7471B	2021-09-09 12:10	SW-846 7471B	0.000062	0.00044	0.00055	0.0000077	0.000018	mg/kg	110	3	80	120	20
10574875	765345	4079378BLANK_10574875	4079378		MB	INITIAL	HgTR	2021-09-08 01:23	SW-846 7471B	2021-09-09 11:53	SW-846 7471B			0.0000084	0.0000084	0.000019	mg/kg					
10574875	765345	4079379LCS_10574875	4079379		LCS	INITIAL	HgTR	2021-09-08 01:23	SW-846 7471B	2021-09-09 11:55	SW-846 7471B		0.00048	0.00049	0.0000084	0.000019	mg/kg	100		80	120	
10574875	765345	SED001-081221-0002MS	4079380	SED001-081221-0002	MS	INITIAL	HgTR	2021-09-08 01:23	SW-846 7471B	2021-09-09 12:05	SW-846 7471B	0.000062	0.00044	0.00053	0.0000077	0.000018	mg/kg	106		80	120	
10574875	765344	SED001-081221-0002MSD	4079366	SED001-081221-0002	MSD	INITIAL	PbTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:41	SW-846 6020B	0.0694	0.0481	0.198	0.000028	0.00019	mg/kg	267	44	75	125	20
10574875	765344	4079364LCS_10574875	4079364		LCS	INITIAL	PbTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:58	SW-846 6020B		0.049	0.0569	0.000029	0.0002	mg/kg	116		80	120	
10574875	765344	4079363BLANK_10574875	4079363		MB	INITIAL	PbTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:54	SW-846 6020B			0.000029	0.000029	0.0002	mg/kg					
10574875	765344	SED001-081221-0002MS	4079365	SED001-081221-0002	MS	INITIAL	PbTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:38	SW-846 6020B	0.0694	0.0476	0.127	0.000028	0.00019	mg/kg	121		75	125	
10574875	173744	R3702385-1BLANK_10574875	R3702385-1		MB	INITIAL	TOC	2021-09-09 10:52	ASTM F1647	2021-09-09 04:05	Walkley Black			0.0255	0.0255	0.1	mg/kg					
10574875	173744	R3702385-2LCS_10574875	R3702385-2		LCS	INITIAL	TOC	2021-09-09 10:52	ASTM F1647	2021-09-09 04:05	Walkley Black		12.1	13.55426	0.051	0.2	mg/kg	112		9.24	188	
10574875	173744	SED004-081221-0206DUP	R3702385-5	SED004-081221-0206	LR	INITIAL	TOC	2021-09-09 12:49	ASTM F1647	2021-09-09 04:08	Walkley Black	4.68		5.982243	0.051	0.2	mg/kg		24.4			20
10574875	173744	SED012-081321MS	R3702385-3	SED012-081321	MS	INITIAL	TOC	2021-09-09 12:49	ASTM F1647	2021-09-09 04:06	Walkley Black	0.0305	4	4.104837	0.0255	0.1	mg/kg	102		80	120	
10574875	173744	SED012-081321MSD	R3702385-4	SED012-081321	MSD	INITIAL	TOC	2021-09-09 12:49	ASTM F1647	2021-09-09 04:06	Walkley Black	0.0305	4	3.828728	0.0255	0.1	mg/kg	95	6.96	80	120	20
10574875	765344	SED001-081221-0002MSD	4079366	SED001-081221-0002	MSD	INITIAL	ZnTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:41	SW-846 6020B	0.466	0.0481	0.536	0.00086	0.0048	mg/kg	147	26	75	125	20
10574875	765344	4079363BLANK_10574875	4079363		MB	INITIAL	ZnTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:54	SW-846 6020B			0.00088	0.00088	0.0049	mg/kg					
10574875	765344	4079364LCS_10574875	4079364		LCS	INITIAL	ZnTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 11:58	SW-846 6020B		0.049	0.0541	0.00088	0.0049	mg/kg	110		80	120	
10574875	765344	SED001-081221-0002MS	4079365	SED001-081221-0002	MS	INITIAL	ZnTR	2021-09-09 08:59	SW-846 3050B	2021-09-10 12:38	SW-846 6020B	0.466	0.0476	0.693	0.00086	0.0048	mg/kg	479		75	125	
S2109013	192935	6113359-CONTROL	CONTROL		LCS	INITIAL	Clay (<2 um)		METHOD	2021-09-08 08:21	ASTM D422			0.0272		0.0001	%	121		75	125	
S2109013	192935	6113353-S2109013-003A	S2109013-003A	SED010-081221-0206	LCSD	INITIAL	Clay (<2 um)		METHOD	2021-09-08 08:15	ASTM D422			0.006		0.0001	%		18.2			
S2109013	192901	6112678-CONTROL	CONTROL		LCS	INITIAL	PH_SAT		METHOD	2021-09-08 08:23	USDA 60-21A			0.0071		0.0001	SU	101		96	104	
S2109013	192935	6113353-S2109013-003A	S2109013-003A	SED010-081221-0206	LCSD	INITIAL	Sand (0.06-2.00 mm)		METHOD	2021-09-08 08:15	ASTM D422			0.09		0.0001	%		2.2			
S2109013	192935	6113359-CONTROL	CONTROL		LCS	INITIAL	Sand (0.06-2.00 mm)		METHOD	2021-09-08 08:21	ASTM D422			0.0325		0.0001	%	80		75	125	
S2109013	192935	6113359-CONTROL	CONTROL		LCS	INITIAL	Silt (2-60 um)		METHOD	2021-09-08 08:21	ASTM D422			0.0402		0.0001	%	102		75	125	
S2109013	192935	6113353-S2109013-003A	S2109013-003A	SED010-081221-0206	LCSD	INITIAL	Silt (2-60 um)		METHOD	2021-09-08 08:15	ASTM D422			0.004		0.0001	%		28.6			
S2109013	192935	6113353-S2109013-003A	S2109013-003A	SED010-081221-0206	LCSD	INITIAL	Soil Particle Density		METHOD	2021-09-08 08:15	ASTM D422						%					
S2109013	192935	6113359-CONTROL	CONTROL		LCS	INITIAL	Soil Particle Density		METHOD	2021-09-08 08:21	ASTM D422						%					

Attachment A
Laboratory and Field Data Validation Checklists

DATA VALIDATION SUMMARY FOR SDG 10574875

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Draft Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0121
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574875
Matrix:	Sediment	**Analysis:**	Total Mercury, Total Metals: As, Cd, Cu, Pb, Zn, pH, %Sand, %Silt, %Clay, Total Organic Carbon
Sample Date(s):	8/12/21, 8/13/21		
Data Validator:	Nadia Reed	**Validation Date:**	11/19/2021

Sample Delivery Group

Analyte	Matrix	Method	Collection Date	Analysis Date
Total Mercury	Sediment	EPA 7471B	8/12/21, 8/13/21	09/09/2021
Total Metals: As, Cd, Cu, Pb, Zn	Sediment	EPA 6020B	8/12/21, 8/13/21	09/10/2021
pH	Sediment	ASA 10-3.2	8/12/21, 8/13/21	9/8/2021
%Sand, %Silt, %Clay	Sediment	ASA 15-5 modified	8/12/21, 8/13/21	9/8/2021
Total Organic Carbon	Sediment	Walkley Black	8/12/21, 8/13/21	09/09/2021

Were Level A field documentation and QA/QC practices met for this data set?	Y_X_ N___
Were Level B field documentation and QA/QC practices met for this data set?	Y_X_ N___

Summary

	Data Points	Natural Data Points	Enforcement Quality (E)	Screening Level (S)	Unusable (R)
Total	101	83	70	13	0
Percentage		82%	84%	16%	0%

Analysis of this data set resulted in 83 natural sample data points. Of the 83 natural sample data points, 70 (84%)%) had no quality control deficiencies and were defined as enforcement quality. Thirteen (16%) data points were defined as screening quality. Of the screening quality data points, two were coded MS due to lab accuracy criteria not being met; two were coded RPD for laboratory precision that did not meet criteria, seven pH results were coded RPD because a laboratory duplicate was not anlayzed, one result was coded MS,RPD for both laboratory accuracy and precision which did not meet criteria, and one was coded FD for field precision which did not meet criteria. One sample was not analyzed for TOC, pH, or particle size analysis due to inadequate sample volume. Thus, of the 88 anticipated data points, 83 were collected and completeness is 94%.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Draft Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574875
Matrix:	Sediment	**Analysis:**	Total Mercury
Sample Date(s):	8/12/21, 8/13/21	**Analysis Date(s):**	09/09/2021
Data Validator:	Nadia Reed	**Validation Date:**	11/19/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SED001-081221-0002	10574875005	765345	FG	SED010, SED012	SED001
SED002-081221-0206	10574875006	765345	FG	SED010, SED012	SED002
SED003-081221-0002	10574875007	765345	FG	SED010, SED012	SED003
SED004-081221-0206	10574875008	765345	FG	SED010, SED012	SED004
SED005-081221-0612	10574875009	765345	FG	SED010, SED012	SED005
SED006-081221-0002	10574875010	765345	FG	SED010, SED012	SED006
SED007-081221-0206	10574875001	765345	FG-N	SED010, SED012	SED007
SED008-081221-0612	10574875002	765345	FG	SED010, SED012	SED008
SED010-081221-0206	10574875003	765345	FG-D	SED010, SED012	SED010
SED012-081321	10574875004	765345	FB	SED010, SED012	SED012

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Mercury	Sediment	EPA 7471B	8/12/21, 8/13/21	09/09/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR MERCURY

2. Blanks	
Were Method Blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_
Describe corrective actions taken because of blank problems.	
3. Laboratory Control Sample (LCS)	
Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_
Describe corrective actions taken because of LCS problems.	
4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)	
Were MS samples analyzed at the frequency of 1 per batch of 20 or fewer samples ?	Y_X_ N___
Were MS/MSD results within control window of 80-120% recovery for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Were MSD samples analyzed at the frequency of 1/20 samples ?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 35% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_
Describe corrective actions taken because of MS/MSD recovery and/or RPD problems.	
Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Draft Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574875
Matrix:	Sediment	**Analysis:**	Total Metals: As, Cd, Cu, Pb, Zn
Sample Date(s):	8/12/21, 8/13/21	**Analysis Date(s):**	09/10/2021
Data Validator:	Nadia Reed	**Validation Date:**	11/19/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
Total Metals					
SED001-081221-0002	10574875005	765344	FG	SED010, SED012	SED001
SED002-081221-0206	10574875006	765344	FG	SED010, SED012	SED002
SED003-081221-0002	10574875007	765344	FG	SED010, SED012	SED003
SED004-081221-0206	10574875008	765344	FG	SED010, SED012	SED004
SED005-081221-0612	10574875009	765344	FG	SED010, SED012	SED005
SED006-081221-0002	10574875010	765344	FG	SED010, SED012	SED006
SED007-081221-0206	10574875001	765344	FG-N	SED010, SED012	SED007
SED008-081221-0612	10574875002	765344	FG	SED010, SED012	SED008
SED010-081221-0206	10574875003	765344	FG-D	SED010, SED012	SED010
SED012-081321	10574875004	765344	FB	SED010, SED012	SED012

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Metals: As, Cd, Cu, Pb, Zn	Sediment	EPA 6020B	8/12/21, 8/13/21	09/10/2021	No

Describe corrective actions taken because of holding time problems.

LABORATORY DATA VALIDATION CHECKLIST FOR ICPMS

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples?	Y_X_ N___
Were MB results non-detects?	Y_X_ N___
Were any data flagged because of blank problems?	Y___ N_X_

Describe corrective actions taken because of blank problems.

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?	Y_X_ N___
Was LCS within control window of 80-120% recovery?	Y_X_ N___
Were any data flagged because of LCS problems?	Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch of 20 or fewer samples ?	Y_X_ N___
Were MS/MSD results within control window of 75-125% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y___ N_X_
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 35% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y___ N_X_
Were any data flagged because of MS/MSD recovery problems?	Y_X_ N___
Were any data flagged because of MS/MSD RPD problems?	Y_X_ N___

Describe corrective actions taken because of MS problems.

QC Batch 765344 *, MS 4079365 As and Zn recoveries >125%, Cu recovery <75%. MSD 4079366 Cu, Pb, and Zn recoveries >125%. The parent sample Zn concentration was >4X the spike concentration, so recovery criteria were waived for Zn.*

The parent sample As, Cu, and Pb concentrations were <4X the MS spike concentration. In addition to MS/MSD recoveries which did not meet criteria, the RPD between the MS and MSD Pb results was >35%. Given the variable nature in sediment chemistry at differing depths and locations, only the parent sample was qualified for these MS recoveries and the MS/MSD RPD. The SED001-081221-0002 As and Pb results were qualified J+, The low MS recovery and high MSD recovery for Cu resulted in an overall J qualifier.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR pH

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Draft Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574875
Matrix:	Sediment	**Analysis:**	pH
Sample Date(s):	8/12/21, 8/13/21	**Analysis Date(s):**	9/8/2021
Data Validator:	Nadia Reed	**Validation Date:**	11/19/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SED001-081221-0002	S2109013-004A	192901	FG	SED010	SED001
SED002-081221-0206	S2109013-005A	192901	FG	SED010	SED002
SED003-081221-0002	S2109013-006A	192901	FG	SED010	SED003
SED004-081221-0206	S2109013-007A	192901	FG	SED010	SED004
SED005-081221-0612	inadequate volume for pH analysis				
SED006-081221-0002	S2109013-008A	192901	FG	SED010	SED006
SED007-081221-0206	S2109013-001A	192901	FG-N	SED010	SED007
SED008-081221-0612	S2109013-002A	192901	FG	SED010	SED008
SED010-081221-0206	S2109013-003A	192901	FG-D	SED010	SED010
SED012-081321	FB not analyzed for pH				

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
pH	Sediment	USDA 60-21A	8/12/21, 8/13/21	9/8/2021	NA

Describe corrective actions taken because of holding time problems.

There is no published holding time for pH analysis by the saturated paste method.

LABORATORY DATA VALIDATION CHECKLIST FOR pH

2. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1 per batch of 20 or fewer samples?		Y_X_ N___
Was LCS within control window of the standard reference material (SRM) used?	SRM criteria: 96-104%R	Y_X_ N___
If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?		Y___ N___NA_X_
Were any data flagged because of LCS problems?		Y___ N_X_

Describe corrective actions taken because of LCS problems.

3. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y___ N_X_
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y___ N___NA_X_
Were any data flagged because of LDS problems?	Y___ N_X_

Describe corrective actions taken because of LDS problems.

The project QAPP and statement of work require that pH analysis incluces a laboratory duplicate. Since a laboratory duplicate was not analyzed for QC batch 192901 (the only pH QC batch), all pH results were qualified as estimated.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR PARTICLE SIZE

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Draft Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574875
Matrix:	Sediment	**Analysis:**	%Sand, %Silt, %Clay
Sample Date(s):	8/12/21, 8/13/21	**Analysis Date(s):**	9/8/2021
Data Validator:	Nadia Reed	**Validation Date:**	11/19/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SED001-081221-0002	S2109013-004A	192935	FG	SED010	SED001
SED002-081221-0206	S2109013-005A	192935	FG	SED010	SED002
SED003-081221-0002	S2109013-006A	192935	FG	SED010	SED003
SED004-081221-0206	S2109013-007A	192935	FG	SED010	SED004
SED005-081221-0612	inadequate volume forparticle size analysis				
SED006-081221-0002	S2109013-008A	192935	FG	SED010	SED006
SED007-081221-0206	S2109013-001A	192935	FG-N	SED010	SED007
SED008-081221-0612	S2109013-002A	192935	FG	SED010	SED008
SED010-081221-0206	S2109013-003A	192935	FG-D	SED010	SED010
SED012-081321	FB not analyzed for particle size				

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
%Sand, %Silt, %Clay	Sediment	ASA 15-5 modified	8/12/21, 8/13/21	9/8/2021	NA

Describe corrective actions taken because of holding time problems.

There is no holding time requirement for particle size analysis.

LABORATORY DATA VALIDATION CHECKLIST FOR PARTICLE SIZE

2. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1 per batch of 20 or fewer samples?		Y_X_ N___
Was LCS within control window of the standard reference material (SRM) used?	% Clay: 75-125%	Y_X_ N___
	% Sand: 75-125%	Y_X_ N___
	% Silt: 75-125%	Y_X_ N___
If an LCSD was analyzed, for sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?		Y____ N____ NA X__
Were any data flagged because of LCS problems?		Y___ N_X_

Describe corrective actions taken because of LCS problems.

3. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?		Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 20% relative percent	% Clay	Y_X_ N___
difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the	% Sand	Y_X_ N___
RL?	% Silt	Y___ N_X_
Were any data flagged because of LDS problems?		Y_X_ N___

Describe corrective actions taken because of LDS problems.

QC batch 192935, A laboratory duplicate was performed with sample SED010-081221-0206 (lab ID2109013-003A). The RPD between the parent and duplicate % silt results was 23.9%. SED010-081221-0206 was the field duplicate. Since the duplicate sample is similar to the native sample (SED007-081221-0206), the % silt result for that sample was also qualified. Percent silt results for both samples were > the MDL and qualified J.

Are there any additional analytical limitations that users should be aware of? Y___ N_X_

LABORATORY DATA VALIDATION CHECKLIST FOR TOTAL ORGANIC CARBON

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Draft Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347.0124
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574875
Matrix:	Sediment	**Analysis:**	Total Organic Carbon
Sample Date(s):	8/12/21, 8/13/21	**Analysis Date(s):**	09/09/2021
Data Validator:	Nadia Reed	**Validation Date:**	11/19/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Lab QC Batch	Sample Type	Associated Fld QC	Abbreviated Field ID
SED001-081221-0002	10574875005	173744	FG	SED010, SED012	SED001
SED002-081221-0206	10574875006	173744	FG	SED010, SED012	SED002
SED003-081221-0002	10574875007	173744	FG	SED010, SED012	SED003
SED004-081221-0206	10574875008	173744	FG	SED010, SED012	SED004
SED005-081221-0612	Inadequate volume for TOC analysis				
SED006-081221-0002	10574875010	173744	FG	SED010, SED012	SED006
SED007-081221-0206	10574875001	173744	FG-N	SED010, SED012	SED007
SED008-081221-0612	10574875002	173744	FG	SED010, SED012	SED008
SED010-081221-0206	10574875003	173744	FG-D	SED010, SED012	SED010
SED012-081321	10574875004	173744	FB	SED010, SED012	SED012

1. Holding Times

Analyte	Matrix	Method	Collection Date	Analysis Date	Affected data flagged
Total Organic Carbon	Sediment	Walkley Black	8/12/21, 8/13/21	09/09/2021	No

Describe corrective actions taken because of holding time problems.

2. Blanks

Were method blanks (MB) analyzed at the frequency of 1/20 samples? Y_X_ N___

Were MB results non-detects? Y_X_ N___

Were any data flagged because of blank problems? Y___ N_X_

Describe corrective actions taken because of blank problems.

LABORATORY DATA VALIDATION CHECKLIST FOR TOTAL ORGANIC CARBON

3. Laboratory Control Sample (LCS)

Was LCS analyzed at the frequency of 1/20 samples?		Y_X_ N___
Was LCS within control window of 9.24-188% recovery, or within the recovery criteria of the specific SRM? ***LCS recovery was 112%.***	Batch SRM Criteria: 9.24-188%R	Y_X_ N___
Were any data flagged because of LCS problems?		Y___ N_X_

Describe corrective actions taken because of ICS problems.

4. Duplicate Sample Results

Was Laboratory Duplicate Sample (LDS) analyzed at the frequency of 1/10 samples?	Y_X_ N___
For sample & duplicate values > 5 times the RL, were results of the duplicate ≤ 20% relative percent difference (RPD)? For sample or duplicate values < 5 times the RL, were results of the duplicate ≤ the RL?	Y___ N_X_
Were any data flagged because of LDS problems?	Y_X_ N___

Describe corrective actions taken because of LDS problems.

QC Batch 1737444 *, Sample Duplicate R3702385-5 RPD >20% and both original and duplicate sample results ≥ 5X RL. The TOC result for the parent sample for the laboratory duplicate, SED004-081221-0206, was ≥ MDL and qualified J.*

5. Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Were MS samples analyzed at the frequency of 1 per batch of 20 or fewer samples ?	Y_X_ N___
Were MS/MSD results within control window of 80-120% for samples in which the parent sample concentration was ≤ 4X the spike concentration?	Y_X_ N___
Was the MSD sample analyzed at the frequency of 1/20 samples?	Y_X_ N___
For MS & MSD results > 5 times the RL, were results of the MSD ≤ 20% relative percent difference (RPD)? For MS & MSD results < 5 times the RL, were results of the MSD ≤ the RL?	Y_X_ N___
Were any data flagged because of MS/MSD recovery problems?	Y___ N_X_
Were any data flagged because of MS/MSD RPD problems?	Y___ N_X_

Describe corrective actions taken because of MS problems.

Are there any additional analytical limitations that users should be aware of?	Y___ N_X_

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Validation Criteria: CFRSSI Data Management/Data Validation Plan and Addendum (ARCO 1992 and ARCO 2000, respectively); Data Validation Guidelines for Inorganic Chemistry (TREC, 2021); National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, November 2020)

Project QAPP: Silver Bow Creek/Butte Area NPL Site Draft Final Butte Priority Soils Operable Unit Interim Site-Wide Surface Water Monitoring Quality Assurance Project Plan (QAPP) 2020-2021 Monitoring Period, (Atlantic Richfield, October 14, 2020)

Site:	Butte Priority Soils Operable Unit	**Project:**	BPSOU SW Monitoring - 0231347
Laboratory:	Pace Analytical Services (Minneapolis, MN)	**WO Number:**	10574875
Matrix:	Sediment	**Analysis:**	Total Mercury, Total Metals: As, Cd, Cu, Pb, Zn, pH, %Sand, %Silt, %Clay, Total Organic Carbon
Sample Date(s):	8/12/21, 8/13/21		
Data Validator:	Nadia Reed	**Validation Date:**	11/19/2021

Sample Delivery Group

Field Sample ID	Lab Sample ID	Sample Type	Associated Fld QC	Abbreviated Field ID
SED001-081221-0002	10574875005	FG	SED010, SED012	SED001
SED002-081221-0206	10574875006	FG	SED010, SED012	SED002
SED003-081221-0002	10574875007	FG	SED010, SED012	SED003
SED004-081221-0206	10574875008	FG	SED010, SED012	SED004
SED005-081221-0612	10574875009	FG	SED010, SED012	SED005
SED006-081221-0002	10574875010	FG	SED010, SED012	SED006
SED007-081221-0206	10574875001	FG-N	SED010, SED012	SED007
SED008-081221-0612	10574875002	FG	SED010, SED012	SED008
SED010-081221-0206	10574875003	FG-D	SED010, SED012	SED010
SED012-081321	10574875004	FB	SED010, SED012	SED012

Analyte	Matrix	Method	Collection Date	Analysis Date
Total Mercury	Sediment	EPA 7471B	8/12/21, 8/13/21	09/09/2021
Total Metals: As, Cd, Cu, Pb, Zn	Sediment	EPA 6020B	8/12/21, 8/13/21	09/10/2021
pH	Sediment	ASA 10-3.2	8/12/21, 8/13/21	9/8/2021
%Sand, %Silt, %Clay	Sediment	ASA 15-5 modified	8/12/21, 8/13/21	9/8/2021
Total Organic Carbon	Sediment	Walkley Black	8/12/21, 8/13/21	09/09/2021

CHECKLIST FOR FIELD QUALITY CONTROL SAMPLES

Field QC Samples	
Field Blanks FB)	
Were FBs sumbitted as specified in the BPSOU SW QAPP?	Y___ N_X_
Were results for FBs within the target control limits in the BPSOU SW QAPP?	Y___ N_X_
Were any data qualified because of FB problems?	Y___ N_X_
FB SED012-081321 had detections of As, Pb, and TOC. The TOC detection was <1.5X the MDL, and blank detections ≤ 1.5X the MDL are not further assessed per TREC data validation guidelines. The As and Pb detections were >1.5X the MDL. As and Pb results for all samples were >10X these FB detections, so no data were qualified based on FBs.	
The FB did not undergo particle size and pH analysis since the results would not be meaningful.	
Field Replicates	
Were field duplicates (FD) submitted as specified in the BPSOU SW QAPP?	Y_X_ N___
Were results for FDs within the target control limits in the BPSOU SW QAPP (≤35% RPD or < 2XRL)	Y___ N_X_
Were any data qualified because of FD results?	Y_X_ N___
Field Duplicate Set SED007-081221-0206/SED010-081221-0206 *TOC RPD >35%. Both primary and duplicate sample results were >5X RL. Given the variability in sediment chemistry with respect to depth and location, only the primary and duplicate TOC results were qualified, with a J qualifier being applied to both results.*	
Additional Comments	

Attachment B
Level A/B Checklist

Level A/B Screening Checklist

I. General Information		II. Screening Results
Site:	BPSOU/10574875	Data are:
Project:	BPSOU SW Monitoring - 0231347	1) Unusable _____
Client:	Atlantic Richfield	2) Level A __X__
Sample Matrix:	Water	3) Level B __X__

II. Level A Screening

		Yes/No
1.	Sampling date	Yes
2.	Sample team/or leader	Yes
3.	Physical description of sample location	Yes
4.	Sample depth (soils)	Yes
5.	Sample collection technique	Yes
6.	Field preparation technique	Yes
7.	Sample preservation technique	Yes
8.	Sample shipping records	Yes

III. Level B Screening

		Yes/No
1.	Field instrumentation methods and standardization complete	NA
2.	Sample container preparation	Yes
3.	Collection of field replicates (1/20 minimum)	Yes
4.	Proper and decontaminated sampling equipment	Yes
5.	Field custody documentation	Yes
6.	Shipping custody documentation	Yes
7.	Traceable sample designation number	Yes
8.	Field notebook(s), custody records in secure repository	Yes
9.	Completed field forms (COC Record)	Yes

Appendix J
Sediment Raw Data

Appendix K
Habitat Monitoring Field Sheets

RAPID HABITAT ASSESSMENT FORM: RIFFLE/RUN PREVALENCE - STREAMS

STREAM NAME:	BTC	DATE:	8/10/21
SITE ID:	SS-01	TEAM:	BF, EC, ME, MD

TOTAL SCORE:	CATEGORY			
HABITAT PARAMETER	OPTIMAL	SUB-OPTIMAL	MARGINAL	POOR
1. INSTREAM COVER (FISH)	Greater than 50% mix of boulder, cobble, submerged logs, undercut banks, or other stable habitat.	30 to 50% mix of boulder, cobble, or other stable habitat; adequate habitat.	10 to 30% mix of boulder, cobble, or other stable habitat; habitat availablity is less than desirable.	Less than 10% of boulder, cobble, or other stable habitat; lack of habitat is obvious.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
2. EPIFAUNAL SUBSTRATE	Well-developed riffle and run; riffle is as wide as stream and its length extends two times the width of stream; abundance of cobble.	Riffle is as wide as stream, but its length is less than two times as width; abundance of cobble; boulders and gravel common.	Run area may be lacking; reduced riffle area that does not extend across entire cross section and is less than two times the width; gravel or large boulders and bedrock prevalent; cobble present.	Riffles or run virtually non-existent; gravel or large boulders and bedrock prevalent; cobble lacking.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
3. EMBEDDEDNESS	Gravel, cobble, and boulder particles are between 0 and 25% surrounded by fine sediment.	Gravel, cobble, and boulder particles are between 25 and 50% surrounded by fine sediment.	Gravel, cobble, and boulder particles are between 50 and 75% surrounded by fine sediment.	Gravel, cobble, and boulder particles are between 75% surrounded by fine sediment.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
4. VELOCITY/DEPTH REGIMES	All four velocity regimes are present (slow-deep, slow-shallow, fast-deep, fast-shallow).	Only three of the four velocity regimes are present (if fast-shallow is missing, score lower than if other regimes are missing).	Only two of the four velocity regimes are present (if fast-shallow or slow-shallow are missing, score low).	Dominated by one velocity regime (usually slow deep).
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
5. CHANNEL ALTERATION	No channelization is present.	Some channelization is present, usually in areas of bridge abutments; evidence of past channelization, i.e. dredging (greater than past 20 yr) may be present, but recent channelization is not present.	New embankments are present on both banks; and 40 to 80% of the stream reach is channelized and disrupted.	Banks shored with gabion or cement; over 80% of the reach is channelized and disrupted.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
6. SEDIMENT DEPOSITION	Little or no enlargement of islands or point bars and less than 5% of the bottom is affected by sediment deposition.	Some new increase in bar formation, mostly from coarse gravel; 5 to 30% of the bottom is affected; slight deposition in pools.	Moderate deposition of new gravel or coarse sand on old and new bars; 30 to 50% of the bottom is affected; sediment deposits as obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material; increased bar development; more than 50% of the bottom is changing frequently; pools almost absent due to substantial sediment deposition.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1

primarily run/glade

BTC / SS-01
is primarily low-gradient glade/run

7. FREQUENCY OF RIFFLES	Occurrence of riffles is relatively frequent; the distance between riffles divided by the width of the stream equals 5 to 7; variety of habitat.	Occurrence of riffles is infrequent; the distance between riffles divided by the width of the stream equals 7 to 15.	Occasional riffle or bend; bottom contours provide some habitat; the distance between riffles divided by the width of the stream equals 15 to 25.	Generally all flat water or shallow riffles; poor habitat; the distance between riffles divided by the width of the stream is greater than 25.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
8. CHANNEL FLOW STATUS	Water reaches the base of both banks and a minimal area of channel substrate is exposed.	Water fills more than 75% of the available channel; or less than 25% of channel substrate is exposed.	Water fills 25 to 75% of the available channel; and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
9. CONDITION OF BANKS	Banks stable; no evidence of erosion or bank failure.	Banks moderately stable; infrequent, small areas of erosion mostly healed over.	Banks moderately unstable; up to 60% of banks in the reach have areas of erosion.	Banks unstable; many eroded areas; "raw" areas frequent along straight sections and bemds; on side slopes, 60 to 100% of bank has erosional scars.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
10. BANK VEGETATIVE PROTECTION	More than 90% of the stream bank surfaces are covered by vegetation.	70 to 90% of the stream bank surfaces are covered by vegetation.	50 to 70% of the stream bank surfaces are covered by vegetation.	Less than 50% of the stream bank surfaces are covered by vegetation.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
11. GRAZING OR OTHER DISRUPTIVE PRESSURE	Vegetative disruption, through grazing or mowing is minimal or not evident; almost all plants are allowed to grow naturally.	Disruption is evident but is not affecting full plant growth potential to any great extent; more than half of the potential plant stubble height remaining.	Disruption is obvious; patches of bare soil or clossely cropped vegetation are common; less than half of the potential plant stubble height remaining.	Dispruption of stream bank vegetation is very high; vegetation has been removed to 2 inches ore less in average stubble height.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
12. RIPARIAN VEGETATION ZONE WIDTH (LEAST SUFFERED SIDE)	Width of riparian zone is greater than 18m; human activities, i.e. parking lots, roadbeds, clearcuts, lawns, or crops, have not impacted this zone.	Riparian zone width is between 12 and 18m; human activities have only minimaly impacted the riparian zone.	Riparian zone width is between 6 and 12m; human activities have greatly impacted the riparian zone.	Riparian zone width is less than 6m; little to no riparian vegetation due to human activities.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 8/10/2021
SITE ID: SS-01	TEAM MEMBERS: BF, EL

TRANSECT: (A-B) B-C C-D D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.2	13.0			X	GL	N	—	
1	1.2				X	GL	N	—	
2	1.2				X	GL	N	—	
3	1.2				X	GL	N	—	
4	1.15				X	GL	N	—	
5	1.1	17.4			X	GL	N	—	
6	1.05				X	GL	N	—	FULL BFA
7	0.9				X	GL	N	—	Slope = 1%
8	1.1				X	GL	N	—	Bearing = 265°
9	0.75				X	GL	N	—	
10	0.90				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None observed.

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

Temp: 11.9°C DO: 9.48 mg/L DO: 88.1% Sp. Cond: 338.8 REPA:

pH: 7.72 ORP: 87.5 mV Turbidity = 0.60 NTU

1322 1

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: ~~SBC~~ BTC	SITE ID: SS-01	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.25	9.0"	FN	100
CENTER	6.5	12.5"	SA	100
RIGHT-CENTER	9.75	14.75"	FN	100
RIGHT	13.0	0"	FN	100%

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	~~X~~	~~X~~			
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS			X		
BOULDERS		X			
ARTIFICAL STRUCTURES		X			

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK	RIGHT BANK
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)	D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE

	LEFT BANK					RIGHT BANK				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X			MK		X				
SMALL TREES (TRUNK < 0.3 m DBH)		X	~~X~~				~~X~~	X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
		X						X		
NON-WOODY HERBS, GRASSES & FORBS		X	~~X~~					X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS	X						X			
NON-WOODY HERBS, GRASSES & FORBS		X						X		
BARREN, BARE DIRT				X					X	

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,				P = PRESENT > 10 m AWAY, B = PRESENT ON BANK			
	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM				X				X
BUILDINGS		X				X		
PAVEMENT			X				X	
ROAD/RAILROAD			X				X	
PIPES (INLET/OUTLET)				X				X
LANDFILL/TRASH	X				X			
PARK/LAWN	~~X~~	X			X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	80°	NA
RIGHT	80°	NA
WETTED WIDTH:		13.0
BAR WIDTH:		NA
BANKFULL WIDTH:		13.6
BANKFULL HEIGHT:		10.0"
INCISED HEIGHT:		10.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	17	CENTER RIGHT	15
CENTER LEFT	13	LEFT	17
CENTER DOWN	15	RIGHT	17

Reviewed by (initials): ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 08/10/2021
SITE ID: SS-01	TEAM MEMBERS: BF, EL

TRANSECT: A-B (B-C) C-D D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH (m) ~~ft~~	WETTED WIDTH (m) ~~ft~~	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.0	11.5			X	GL	N	—	
1	1.2				X	GL	N	—	
2	1.4				X	GL	N	—	
3	0.8				X	GL	N	—	65%.
4	1.5				X	GL	N	—	~~45%~~.
5	1.5	11.8			X	GL	N	—	C-B
6	1.15				X	GL	N	—	Slope = 0.5%. Bearing = 236.
7	0.8				X	GL	N	—	
8	1.2				X	GL	N	—	
9	1.55				X	GL	N	—	
10	1.6				X	GL	N		45%. C-B
11									Slope = 0.5%.
12									Bearing = 245°
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)
-Tally Each Piece-

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m	1			1		
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

Revisit 8/9/21 1335 3/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: ~~SBC~~ BTC	SITE ID: SS01	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A ~~B~~ C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ Ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	GC	90
LEFT-CENTER	2.88	9.5"	GC	50
CENTER	5.75	14.0"	SA	100
RIGHT-CENTER	8.63	14.5"	SA	100
RIGHT	11.5	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	~~WOOD~~	X			
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS		X			
BOULDERS	X				
ARTIFICAL STRUCTURES		X			

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10-40%)
3 = HEAVY (40-75%)
4 = VERY HEAVY (>75%)

D = DECIDUOUS
C = CONIFEROUS
E = BROADLEAF EVG.
M = MIXED
N = NONE

	LEFT BANK					RIGHT BANK				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)		X						X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
		X					X			
NON-WOODY HERBS, GRASSES & FORBS		X						X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS	X					X				
NON-WOODY HERBS, GRASSES & FORBS		X						X		
BARREN, BARE DIRT					X			X		

HUMAN INFLUENCE

0 = NOT PRESENT,
C = PRESENT WITHIN 10 m,
P = PRESENT > 10 m AWAY
B = PRESENT ON BANK

	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM			X			X		
BUILDINGS		X				X		
PAVEMENT			X			X		
ROAD/RAILROAD			X			X		
PIPES (INLET/OUTLET)				X	X			
LANDFILL/TRASH	X				X			
PARK/LAWN		X			X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ Ft
LEFT	50°	NA
RIGHT	67°	NA
WETTED WIDTH:		11.5
BAR WIDTH:		NA
BANKFULL WIDTH:		13.7
BANKFULL HEIGHT:		15.0"
INCISED HEIGHT:		15.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	17	CENTER RIGHT	16
CENTER LEFT	17	LEFT	17
CENTER DOWN	15	RIGHT	17

Reviewed by (initials): ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 08/10/2021
SITE ID: SS-01	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C (C-D) D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.2	15.2			X	PL	U	—	
1	1.0				X	RI	N	—	
2	0.45				X	RI	N	—	
3	0.40				X	RI	N	—	
4	0.60				X	RI	N	—	
5	0.65	15.45			X	RI	N	—	
6	0.65				X	GL	N	—	
7	1.3				—	GL	N	—	FULL D-C Slope = 0.25%
8	1.4				—	PB	U	—	Bearing = 255°
9	1.8				—	PB	U	—	
10	0.4				X	RI	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

1348 3/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: ~~SBC~~ BTC	SITE ID: SS-01	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B ~~C~~ D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (m) ~~Ft~~	DEPTH ~~(cm)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.8	60"	FN	100
CENTER	7.6	13.5"	SA	100
RIGHT-CENTER	11.4	14.0"	SA	100
RIGHT	15.2	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	0	1	2	3	4
FILEMENTOUS ALGAE		X			
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS		X			
BOULDERS	X				
ARTIFICAL STRUCTURES		X			

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m) Ft~~
LEFT	5°	NA
RIGHT	80°	NA
WETTED WIDTH:		15.2
BAR WIDTH:		NA
BANKFULL WIDTH:		19.6
BANKFULL HEIGHT:		17.0"
INCISED HEIGHT:		6.5"

lateral incision right bank sloughing

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	1	CENTER RIGHT	0
CENTER LEFT	1	LEFT	14
CENTER DOWN	0	RIGHT	16 all grass

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X				X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X				X			
NON-WOODY HERBS, GRASSES & FORBS			X				X			
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS	X					X				
NON-WOODY HERBS, GRASSES & FORBS			X					X		
BARREN, BARE DIRT			X						X	
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X			
BUILDINGS		X					X			
PAVEMENT		X						X		
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)		X				X				
LANDFILL/TRASH	X					X				
PARK/LAWN		X				X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

Reviewed by (initials): MK ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 08/10/2021
SITE ID: SS-01	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D **(D-E)** E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH (m)	WETTED WIDTH (m)	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	0.4	20.2			X	RI	N	—	
1	0.8				X	GL	N	—	
2	0.3				X	RI	N	—	
3	0.4				X	RI	N	—	
4	0.6				X	RI	N	—	
5	0.7	17.4			X	GL	N	—	Full E-D
6	0.45				X	GL	N	—	Slope = 1%
7	0.87				X	GL	N	—	Bearing = 255°
8	0.7				X	GL	N	—	
9	0.6				X	GL	N	—	
10	0.8				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

REP A
45.98529
-112.50719

Transect starts @ F on 8506A Filamentous Algae 1409 4/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: ~~SBC~~ BTC	SITE ID: 8501	TEAM MEMBERS: MK, ME
DATE: 6/10/21	TRANSECT: A B C ~~D~~ E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (m) ~~ft~~	DEPTH (m)	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	5.05	5.5"	GF	90
CENTER	10.1	5.0"	FN	100
RIGHT-CENTER	15.15	5.5"	SA	100
RIGHT	20.2	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE		X			
MACROPHYTES			X		
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE				X	
UNDERCUT BANKS		X			
BOULDERS		X			
ARTIFICAL STRUCTURES		X			

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK	RIGHT BANK
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)	D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE

	LEFT BANK D	C	E	M	N	RIGHT BANK D	C	E	M	N
CANOPY (> 5 M HIGH)										
VEGETATION TYPE (D, C, M, OR N)	X								X	
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X							X		
SMALL TREES (TRUNK < 0.3 m DBH)			X				X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
				X			X			
NON-WOODY HERBS, GRASSES & FORBS				X			X			
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS				X			X			
NON-WOODY HERBS, GRASSES & FORBS				X				X		
BARREN, BARE DIRT		X						X		

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m, P = PRESENT > 10 m AWAY, B = PRESENT ON BANK							
	LEFT BANK 0	P	C	B	RIGHT BANK 0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		~~X~~	X					X
BUILDINGS	X					X		
PAVEMENT			X				X	
ROAD/RAILROAD			X			X		
PIPES (INLET/OUTLET)	X							X
LANDFILL/TRASH	X				X			
PARK/LAWN		X					X	
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE (m) ~~ft~~
LEFT	77°	NA
RIGHT	70°	NA
WETTED WIDTH:		20.2
BAR WIDTH:		NA
BANKFULL WIDTH:		21.2
BANKFULL HEIGHT:		20.0"
INCISED HEIGHT:		20.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	17	CENTER RIGHT	17
CENTER LEFT	17	LEFT	17
CENTER DOWN	17	RIGHT	15 (grass) 17 (conifers)

Reviewed by (initials): MK/ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 08/10/2021
SITE ID: SS-01	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E **(E-F)** F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH ~~(m)~~ ft	WETTED WIDTH ~~(m)~~ ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	0.9	17.2			X	GL	N	—	
1	0.9				X	GL	N	—	
2	1.1				X	GL	N	—	
3	1.1				X	GL	N	—	
4	1.0				X	GL	N	—	F-E
5	1.0	17.0			X	GL	N	—	Slope = 1%
6	0.9				X	GL	N	—	Bearing = 267°
7	0.7				X	GL	N	—	
8	0.8				X	GL	N		
9	0.85				X	GL	N	—	
10	1.1				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- NONE OBSERVED

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

BMI REP B:
45.98525
-112.50673

~~1448~~ 5

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: ~~SBC~~ BTC	SITE ID: 5501	TEAM MEMBERS: MK, ME
DATE: 6/10/21	TRANSECT: A B C D ~~E~~ F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ Ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	5.5"	FN	100
LEFT-CENTER	4.3	11.0"	SA	100
CENTER	8.6	9.0"	GF	75
RIGHT-CENTER	12.9	4.5"	SA	100
RIGHT	~~17.2~~	4.0"	SA	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ Ft
LEFT	150°	6.0"
RIGHT	130°	6.25"
WETTED WIDTH:		17.2
BAR WIDTH:		NA
BANKFULL WIDTH:		18.4
BANKFULL HEIGHT:		17.0"
INCISED HEIGHT:		17.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE		X			
MACROPHYTES				X	
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS		X			
BOULDERS		X			
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	0	CENTER RIGHT	5
CENTER LEFT	0	LEFT	12 grass
CENTER DOWN	5	RIGHT	12 mix grass & conifer

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X								X	
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X						MK	X		
SMALL TREES (TRUNK < 0.3 m DBH)		X				X	~~MK~~			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X		X				~~X~~ MK
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
		X					X			
NON-WOODY HERBS, GRASSES & FORBS			X			X				
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS		X					X			
NON-WOODY HERBS, GRASSES & FORBS			X					X		
BARREN, BARE DIRT			X						X	

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,				P = PRESENT > 10 m AWAY B = PRESENT ON BANK			
	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM			X			X		
BUILDINGS	X					X		
PAVEMENT		MK ~~X~~	X			X		
ROAD/RAILROAD			X			X		
PIPES (INLET/OUTLET)	X				X			
LANDFILL/TRASH	X				X			
PARK/LAWN		X					X	
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): MK ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 08/10/2021
SITE ID: SS-01	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F **(F-G)** G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH (m)	WETTED WIDTH (m)	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.0	15.0			X	RI	N	—	
1	1.0				X	GL	N	—	
2	0.7				X	GL	N	—	
3	0.7				X	GL	N	—	
4	0.8				X	GL	N	—	Full G-H
5	0.7	17.2			X	GL	N	—	Slope = 0%
6	0.85				X	GL	N	—	Bearing = 247°
7	0.85				X	GL	N	—	
8	0.9				X	GL	N	—	
9	1.1				X	GL	N	—	
10	1.15				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- NONE OBSERVED

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

1443 6/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: ~~SBC~~ BTC	SITE ID: SS-01	TEAM MEMBERS: MK, ME
DATE: 9/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m) ft~~	DEPTH ~~(cm)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.75	10.5"	SA	100
CENTER	7.5	11.5"	SA	100
RIGHT-CENTER	11.25	10.0"	CB	10
RIGHT	15.0	3.75"	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m) ft~~
LEFT	45°	NA
RIGHT	120°	5.0"
WETTED WIDTH:		15.0
BAR WIDTH:		NA
BANKFULL WIDTH:		16.0
BANKFULL HEIGHT:		11.0"
INCISED HEIGHT:		11.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE			X		
MACROPHYTES				X	
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS		X			
BOULDERS		X			
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	0	CENTER RIGHT	0
CENTER LEFT	0	LEFT	11 grass
CENTER DOWN	0	RIGHT	11 grass

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)					X	X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)	X						X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	~~NO~~	1	2	3	4	0	1	2	3	4
	~~OA~~ X						X			
NON-WOODY HERBS, GRASSES & FORBS			X				X			
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS		X					X			
NON-WOODY HERBS, GRASSES & FORBS			X					X		
BARREN, BARE DIRT				X					X	
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM			X				X			
BUILDINGS	X						X			
PAVEMENT			X				X			
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)	X					X				
LANDFILL/TRASH	X					X				
PARK/LAWN		X					ME	X		
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

Reviewed by (initials): MK

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 08/10/2021
SITE ID: SS-01	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G (G-H) H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH ~~(m)~~ ft	WETTED WIDTH ~~(m)~~ ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.25	14.7			X	GL	~~N~~	—	
1	1.3				X	GL	N	—	"Pool"
2	1.55				X	OD	O	—	at 2 outfalls
3	1.6				X	OD	O	—	BT-020
4	0.75				X	GL	N	—	BT-021
5	1.2	11.3			X	GL	N	—	
6	1.3				X	GL	N	—	
7	1.4				X	GL	N	—	Full H-G
8	1.1				X	GL	N	—	Slope = 0.5%
9	1.1				X	GL	N	—	Bearing = 265°
10	1.05				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

~~1557~~ 1457 7/

STREAM NAME: ~~SBC~~ BTC	SITE ID: SS-01	TEAM MEMBERS: NL, MB
DATE: 8/10/21	TRANSECT: A B C D E F G ~~H~~ I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (~~m~~ ft)	DEPTH (~~m~~)	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.68	9.0"	FN	100
CENTER	7.35	14.0"	SA	100
RIGHT-CENTER	11.03	14.5"	SA	100
RIGHT	14.7	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE (~~m~~ ft)
LEFT	65°	NA
RIGHT	75°	NA
WETTED WIDTH:		14.7
BAR WIDTH:		NA
BANKFULL WIDTH:		15.4
BANKFULL HEIGHT:		14.0"
INCISED HEIGHT:		14.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE)				
	0	1	2	3	4
FILEMENTOUS ALGAE			X		
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS		X			
BOULDERS			X		
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	13	CENTER RIGHT	17
CENTER LEFT	17	LEFT	17
CENTER DOWN	16	RIGHT	17

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10-40%)
3 = HEAVY (40-75%)
4 = VERY HEAVY (>75%)

D = DECIDUOUS
C = CONIFEROUS
E = BROADLEAF EVG.
M = MIXED
N = NONE

	LEFT BANK					RIGHT BANK				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X							X		
SMALL TREES (TRUNK < 0.3 m DBH)			X				X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X					X		
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X				X			
NON-WOODY HERBS, GRASSES & FORBS			X					X		
BARREN, BARE DIRT			X					X		

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,				P = PRESENT > 10 m AWAY B = PRESENT ON BANK			
	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X	
BUILDINGS	X					X		
PAVEMENT			X			X		
ROAD/RAILROAD			X			X		
PIPES (INLET/OUTLET)	X							X
LANDFILL/TRASH	X				X			
PARK/LAWN		X			X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): MwE

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 08/10/2021
SITE ID: SS01	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G G-H **H-I** I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.05	15.8			X	GL	N	—	
1	1.0				X	GL	N	—	
2	0.7				X	GL	N	—	
3	0.6				X	GL	N	—	
4	0.6				X	RI	N	—	
5	0.5	16.4			—	RI	N	—	FULL I-H
6	0.45				X	RI	N	—	Slope = 1%
7	0.5				X	GL	N	—	Bearing = 285°
8	0.65				X	GL	N	—	
9	1.0				X	GL	N	—	
10	0.9				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

REP C: 45.98516 -112.50622

REP D: 45.98513 -112.50613

1509 8

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: ~~SBC~~ BTC	SITE ID: SS-01	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G ~~H~~ I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (m) ~~ft~~	DEPTH (m) ~~ft~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.95	6.0"	SA	100
CENTER	7.9	10.0"	~~GF~~	75
RIGHT-CENTER	11.85	12.0"	GF	75
RIGHT	15.8	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE (m) ~~ft~~
LEFT	75°	NA
RIGHT	55°	NA
WETTED WIDTH:		15.8
BAR WIDTH:		NA
BANKFULL WIDTH:		17.0
BANKFULL HEIGHT:		~~17~~ 17.0"
INCISED HEIGHT:		17.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE		MK	X		
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS			X		
BOULDERS			X		
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	4	CENTER RIGHT	9
CENTER LEFT	10	LEFT	15
CENTER DOWN	8	RIGHT	17 all grass

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)					D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X								X	
BIG TREES (TRUNK > 0.3 m DBH)	0 / X	1	2	3	4	0	1	2 / X	3	4
SMALL TREES (TRUNK < 0.3 m DBH)			X					X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2 / X	3	4	0	1	2 / X	3	4
NON-WOODY HERBS, GRASSES & FORBS			X				X	X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS		X					X			
NON-WOODY HERBS, GRASSES & FORBS		X						X		
BARREN, BARE DIRT		X						X		

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m, P = PRESENT > 10 m AWAY, B = PRESENT ON BANK							
	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X						
BUILDINGS	X							
PAVEMENT			X					
ROAD/RAILROAD			X					
PIPES (INLET/OUTLET)	X							
LANDFILL/TRASH	X							
PARK/LAWN		X						
ROW CROPS	X							
PASTURE/RANGE/HAY FIELD	X							
LOGGING OPERATIONS	X							
MINING ACTIVITY	X							

Reviewed by (initials): MME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 08/10/2021
SITE ID: SS-01	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G G-H H-I (I-J) J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	0.85	17.1			X	GL	N	—	
1	1.1				X	GL	N	—	
2	0.75				X	GL	N	—	
3	0.8				X	GL	N	—	
4	0.75				X	GL	N	—	FULL J-1
5	0.85	18.1			X	GL	N	—	Slope = 1%
6	0.7				X	GL	N	—	Bearing = 297°
7	0.7				X	GL	N	—	
8	0.6				X	GL	N	—	
9	1.0				X	GL	N	—	
10	1.0				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

1525 9

STREAM NAME: ~~SBC~~ BTC	SITE ID: 85-01	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m) Ft~~	DEPTH ~~(cm)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	4.28	4.5"	SA	100
CENTER	8.55	10.5"	SA	100
RIGHT-CENTER	12.83	11.5"	SA	100
RIGHT	17.1	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE			X		
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE				X	
UNDERCUT BANKS	X				
BOULDERS		X			
ARTIFICAL STRUCTURES		X			

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10-40%)
3 = HEAVY (40-75%)
4 = VERY HEAVY (>75%)

	LEFT BANK D	C	E	M	N	RIGHT BANK D	C	E	M	N
CANOPY (> 5 M HIGH)										
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0 1 2 3 4					0 1 2 3 4				
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X				X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0 1 2 3 4					0 1 2 3 4				
			X				X			
NON-WOODY HERBS, GRASSES & FORBS			X				X			
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS		X					X			
NON-WOODY HERBS, GRASSES & FORBS			X					X		
BARREN, BARE DIRT			X					X		

HUMAN INFLUENCE
0 = NOT PRESENT,
C = PRESENT WITHIN 10 m,
P = PRESENT > 10 m AWAY
B = PRESENT ON BANK

	LEFT BANK 0	P	C	B	RIGHT BANK 0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X	
BUILDINGS	X						X	
PAVEMENT		~~X~~ MK	X				X	
ROAD/RAILROAD			X			X	~~X~~	
PIPES (INLET/OUTLET)	X				X			
LANDFILL/TRASH	X				X			
PARK/LAWN		X					X	
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m) Ft~~
LEFT	40	NA
RIGHT	65	NA
WETTED WIDTH:		17.1
BAR WIDTH:		NA
BANKFULL WIDTH:		18.1
BANKFULL HEIGHT:		15.0"
INCISED HEIGHT:		15.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	4	CENTER RIGHT	0
CENTER LEFT	7	LEFT	17
CENTER DOWN	15	RIGHT	16 forbes

Reviewed by (initials): MK ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: BTC	DATE: 08/10/2021
SITE ID: SS-01	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.80

STATION	THALWEG DEPTH (m) ~~ft~~	WETTED WIDTH (m) ~~ft~~	BAR WIDTH[1]		SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
			X	(m)					
0	1.1	~~14.5 44.2~~ NONE			X	GL	N	—	
1	1.15				X	GL	N	—	
2	1.3				X	GL	N	—	
3	0.9				—	GL	N	—	
4	0.9				—	GL	N	—	
5	1.0	12.1			X	GL	N	—	FULL K-J
6	0.9				X	GL	N	—	Slope = 1.25%
7	1.1				X	GL	N	—	Bearing = 295°
8	1.4				X	GL	N	—	
9	1.4				X	GL	N	—	
10	1.2				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- ~~NONE OBSERVED~~ NONE

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m				1		
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

1541 10/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: ~~SBC~~ BTC	SITE ID: BS-01	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.65	9.75"	FN	100
CENTER	7.3	15.0"	FN	100
RIGHT-CENTER	10.95	11.5"	SA	100
RIGHT	14.6	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	65	NA
RIGHT	50°	NA
WETTED WIDTH:		14.6
BAR WIDTH:		NA
BANKFULL WIDTH:		16.5
BANKFULL HEIGHT:		~~16~~ 19.0"
INCISED HEIGHT:		14.0

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE)				
	0	1	2	3	4
FILEMENTOUS ALGAE			X		
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)		X			
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE				X	
UNDERCUT BANKS			X		
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	10	CENTER RIGHT	0
CENTER LEFT	16	LEFT	15 mix grass & willow
CENTER DOWN	7	RIGHT	1 grass

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%), 1 = SPARSE (<10%), 2 = MODERATE (10-40%), 3 = HEAVY (40-75%), 4 = VERY HEAVY (>75%)					D = DECIDUOUS, C = CONIFEROUS, E = BROADLEAF EVG., M = MIXED, N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X									X
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
		X				X				
SMALL TREES (TRUNK < 0.3 m DBH)			X			X				
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X			X				
NON-WOODY HERBS, GRASSES & FORBS		X					X			
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS		X				X				
NON-WOODY HERBS, GRASSES & FORBS			X					X		
BARREN, BARE DIRT			X					X		

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m, P = PRESENT > 10 m AWAY, B = PRESENT ON BANK							
	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM			X			X		
BUILDINGS	X					X		
PAVEMENT			X			X		
ROAD/RAILROAD			X			X		
PIPES (INLET/OUTLET)	X				X			
LANDFILL/TRASH	X				X			
PARK/LAWN		X					X	
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): MKE

1552 11x

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: ~~SBC~~ BTC	SITE ID: ~~S~~-01	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J ~~K~~	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~ "	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.55	5.0"	SA	100
CENTER	7.1	19.25"	FN	100
RIGHT-CENTER	10.65	17.75"	FN	100
RIGHT	14.2	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	75°	NA
RIGHT	55°	NA
WETTED WIDTH:		14.2
BAR WIDTH:		NA
BANKFULL WIDTH:		14.9
BANKFULL HEIGHT:		13.0"
INCISED HEIGHT:		13.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE		X			
MACROPHYTES	X				
WOODY DEBRIS > 0.3 m (BIG)		X			
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE					X
UNDERCUT BANKS	X				
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	15	CENTER RIGHT	17
CENTER LEFT	17	LEFT	17
CENTER DOWN	17	RIGHT	17

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)					D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X					X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X					X		
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS			X					X		
BARREN, BARE DIRT			X					X		

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,				P = PRESENT > 10 m AWAY, B = PRESENT ON BANK			
	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X	
BUILDINGS	X					X		
PAVEMENT			X				X	
ROAD/RAILROAD			X				X	
PIPES (INLET/OUTLET)	X				X			
LANDFILL/TRASH		X			X			
PARK/LAWN		X					X	
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): MWE

RAPID HABITAT ASSESSMENT FORM: RIFFLE/RUN PREVALENCE - STREAMS

STREAM NAME:	SBC	DATE:	4/10/21
SITE ID:	SS-06A	TEAM:	BF, EL, ME, ML

TOTAL SCORE:	CATEGORY			
HABITAT PARAMETER	OPTIMAL	SUB-OPTIMAL	MARGINAL	POOR
1. INSTREAM COVER (FISH)	Greater than 50% mix of boulder, cobble, submerged logs, undercut banks, or other stable habitat.	30 to 50% mix of boulder, cobble, or other stable habitat; adequate habitat.	10 to 30% mix of boulder, cobble, or other stable habitat; habitat availablity is less than desirable.	Less than 10% of boulder, cobble, or other stable habitat; lack of habitat is obvious.
SCORE:	20 19 18 17 16	15 14 13 12 (11)	10 9 8 7 6	5 4 3 2 1
2. EPIFAUNAL SUBSTRATE	Well-developed riffle and run; riffle is as wide as stream and its length extends two times the width of stream; abundance of cobble.	Riffle is as wide as stream, but its length is less than two times as width; abundance of cobble; boulders and gravel common.	Run area may be lacking; reduced riffle area that does not extend across entire cross section and is less than two times the width; gravel or large boulders and bedrock prevalent; cobble present.	Riffles or run virtually non-existent; gravel or large boulders and bedrock prevalent; cobble lacking.
SCORE:	20 19 18 17 16	15 14 13 12 (11)	10 9 8 7 6	5 4 3 2 1
3. EMBEDDEDNESS	Gravel, cobble, and boulder particles are between 0 and 25% surrounded by fine sediment.	Gravel, cobble, and boulder particles are between 25 and 50% surrounded by fine sediment.	Gravel, cobble, and boulder particles are between 50 and 75% surrounded by fine sediment.	Gravel, cobble, and boulder particles are between 75% surrounded by fine sediment.
SCORE:	20 19 18 17 16	15 14 13 12 11	(10) 9 8 7 6	5 4 3 2 1
4. VELOCITY/DEPTH REGIMES	All four velocity regimes are present (slow-deep, slow-shallow, fast-deep, fast-shallow).	Only three of the four velocity regimes are present (if fast-shallow is missing, score lower than if other regimes are missing).	Only two of the four velocity regimes are present (if fast-shallow or slow-shallow are missing, score low).	Dominated by one velocity regime (usually slow deep).
SCORE:	20 19 18 17 16	15 14 (13) 12 11	10 9 8 7 6	5 4 3 2 1
5. CHANNEL ALTERATION	No channelization is present.	Some channelization is present, usually in areas of bridge abutments; evidence of past channelization, i.e. dredging (greater than past 20 yr) may be present, but recent channelization is not present.	New embankments are present on both banks; and 40 to 80% of the stream reach is channelized and disrupted.	Banks shored with gabion or cement; over 80% of the reach is channelized and disrupted.
SCORE:	20 19 18 17 (16)	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
6. SEDIMENT DEPOSITION	Little or no enlargement of islands or point bars and less than 5% of the bottom is affected by sediment deposition.	Some new increase in bar formation, mostly from coarse gravel; 5 to 30% of the bottom is affected; slight deposition in pools.	Moderate deposition of new gravel or coarse sand on old and new bars; 30 to 50% of the bottom is affected; sediment deposits as obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material; increased bar development; more than 50% of the bottom is changing frequently; pools almost absent due to substantial sediment deposition.
SCORE:	20 19 18 17 16	15 14 13 12 11	(10) 9 8 7 6	5 4 3 2 1

Boulders absent; primarily glide w/ few riffles

↳ Note = sed. deposition common, but no bars/islands present

7. FREQUENCY OF RIFFLES	Occurrence of riffles is relatively frequent; the distance between riffles divided by the width of the stream equals 5 to 7; variety of habitat.	Occurrence of riffles is infrequent; the distance between riffles divided by the width of the stream equals 7 to 15.	Occasional riffle or bend; bottom contours provide some habitat; the distance between riffles divided by the width of the stream equals 15 to 25.	Generally all flat water or shallow riffles; poor habitat; the distance between riffles divided by the width of the stream is greater than 25.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
8. CHANNEL FLOW STATUS	Water reaches the base of both banks and a minimal area of channel substrate is exposed.	Water fills more than 75% of the available channel; or less than 25% of channel substrate is exposed.	Water fills 25 to 75% of the available channel; and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
9. CONDITION OF BANKS	Banks stable; no evidence of erosion or bank failure.	Banks moderately stable; infrequent, small areas of erosion mostly healed over.	Banks moderately unstable; up to 60% of banks in the reach have areas of erosion.	Banks unstable; many eroded areas; "raw" areas frequent along straight sections and bemds; on side slopes, 60 to 100% of bank has erosional scars.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
10. BANK VEGETATIVE PROTECTION	More than 90% of the stream bank surfaces are covered by vegetation.	70 to 90% of the stream bank surfaces are covered by vegetation.	50 to 70% of the stream bank surfaces are covered by vegetation.	Less than 50% of the stream bank surfaces are covered by vegetation.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
11. GRAZING OR OTHER DISRUPTIVE PRESSURE	Vegetative disruption, through grazing or mowing is minimal or not evident; almost all plants are allowed to grow naturally.	Disruption is evident but is not affecting full plant growth potential to any great extent; more than half of the potential plant stubble height remaining.	Disruption is obvious; patches of bare soil or clossely cropped vegetation are common; less than half of the potential plant stubble height remaining.	Dispruption of stream bank vegetation is very high; vegetation has been removed to 2 inches ore less in average stubble height.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
12. RIPARIAN VEGETATION ZONE WIDTH (LEAST SUFFERED SIDE)	Width of riparian zone is greater than 18m; human activities, i.e. parking lots, roadbeds, clearcuts, lawns, or crops, have not impacted this zone.	Riparian zone width is between 12 and 18m; human activities have only minimaly impacted the riparian zone.	Riparian zone width is between 6 and 12m; human activities have greatly impacted the riparian zone.	Riparian zone width is less than 6m; little to no riparian vegetation due to human activities.
SCORE:	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SILVER BOW CR.	DATE: 8/10/21
SITE ID: SS-06A	TEAM MEMBERS: EL, BF

TRANSECT: (A-B) B-C C-D D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.55	13.6			X	GL	N	—	
1	2.0				X	GL	N	—	
2	1.55				X	GL	N	—	
3	1.34				X	GL	N	—	
4	1.15				X	RI	N	—	
5	0.95	14.6			—	RI	N	—	
6	0.9				—	RI	N	—	
7	1.0				—	RI	N	—	Full B-A
8	0.95				—	RI	N	—	Slope = 2.5%
9	1.45				—	RI	N	—	Bearing = 225°
10	0.85				—	RI	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Cascade
FA	Falls
DR	Dry Channel

COMMENTS

Temp = 13.9°C, DO = 75.8%, DO = 7.80 mg/L, Sp. Cond = 1535 µs/cm, pH = 7.47, ORP = 104.4 mV, Turbidity = 0.54 FNU

REP A: 45.99428°, -112.55240°

REP B: 45.99431, -112.55209

REP C: 45.99453, -112.55171

REP D: 45.99464, -112.55132

08:20 1

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06A	TEAM MEMBERS: ME, MF
DATE: 9/10/11	TRANSECT: ~~A~~ B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ Ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.4	16.0"	CB	50
CENTER	6.9	12.25"	CG	50
RIGHT-CENTER	~~2.~~ 10.2	15.5"	CG	50
RIGHT	13.6	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ Ft
LEFT	53°	NA
RIGHT	60°	NA
WETTED WIDTH:		13.6
BAR WIDTH:		NA
BANKFULL WIDTH:		14.2
BANKFULL HEIGHT:		12.0"
INCISED HEIGHT:		12.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES			X		
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS	X				
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	6	CENTER RIGHT	13
CENTER LEFT	14	LEFT	17
CENTER DOWN	5	RIGHT	17

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK	RIGHT BANK
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)	D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE

CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	**0**	**1**	**2**	**3**	**4**	**0**	**1**	**2**	**3**	**4**
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)					X			X		
UNDERSTORY (0.5 TO 5 m HIGH)	**D**	**C**	**E**	**M**	**N**	**D**	**C**	**E**	**M**	**N**
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	**0**	**1**	**2**	**3**	**4**	**0**	**1**	**2**	**3**	**4**
				X					X	
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	**0**	**1**	**2**	**3**	**4**	**0**	**1**	**2**	**3**	**4**
WOODY SHRUBS & SEEDLINGS				X				X		
NON-WOODY HERBS, GRASSES & FORBS	~~X~~ NC				X					X
BARREN, BARE DIRT	~~X~~	X					X			

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,				P = PRESENT > 10 m AWAY B = PRESENT ON BANK			
	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X				X		
BUILDINGS		X				X		
PAVEMENT	X				X			
ROAD/RAILROAD		X				X		
PIPES (INLET/OUTLET)		X				X		
LANDFILL/TRASH	X				X			
PARK/LAWN	X				X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): MWE

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/10/2021
SITE ID: SS-06A	TEAM MEMBERS: BF, EL

TRANSECT: A-B (B-C) C-D D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	0.85	13.4			X	RI	N	—	
1	0.85				X	RI	N	—	
2	0.85				X	RI	N	—	
3	0.9				X	GL	N	—	
4	1.1				—	GL	N	—	
5	1.33	13.9			—	GL	N	—	
6	1.46				—	GL	N	—	
7	1.66				—	GL	N	—	FULL B-A
8	1.30				X	GL	N	—	Slope = 1.5%
9	0.90				—	GL	N	—	Bearing = 190°
10	0.75				—	RI	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- none observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

09:46 2/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06A	TEAM MEMBERS: ME, ME
DATE: 9/10/21	TRANSECT: A (B) C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.35	11.5"	CG	75
CENTER	6.7	9.0"	CG	50
RIGHT-CENTER	10.05	8.0"	CB	75
RIGHT	13.4	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	60°	NA
RIGHT	80°	NA
WETTED WIDTH:		13.4
BAR WIDTH:		NA
BANKFULL WIDTH:		13.6
BANKFULL HEIGHT:		11.0"
INCISED HEIGHT:		11.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS		X			
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	7	CENTER RIGHT	15
CENTER LEFT	16	LEFT	17
CENTER DOWN	14	RIGHT	17

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)						D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X						X	
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X						X	
NON-WOODY HERBS, GRASSES & FORBS			X						X	
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X						X	
NON-WOODY HERBS, GRASSES & FORBS					X					X
BARREN, BARE DIRT		X				X				

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m, P = PRESENT > 10 m AWAY, B = PRESENT ON BANK							
	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X				X		
BUILDINGS		X				X		
PAVEMENT	X				X			
ROAD/RAILROAD		X				X		
PIPES (INLET/OUTLET)		X				X		
LANDFILL/TRASH	X				X			
PARK/LAWN	X				X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/10/2021
SITE ID: SS-06A	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C (C-D) D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (m)	WETTED WIDTH (m)	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.52	14.7			—	GL	N	—	
1	1.33				X	GL	N	—	
2	1.49				X	GL	N	—	
3	1.39				X	GL	N	—	
4	1.35				X	GL	N	—	
5	1.37	16.1			X	GL	N	—	
6	1.15				X	RI	N	—	Full D-C
7	1.0				X	RI	N	—	
8	1.0				—	RI	N	—	Slope 1.5% Bearing 225°
9	0.9				—	RI	N	—	
10	1.0				—	RI	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- NONE OBSERVED

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

09:06 3/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	2.75"	FN	100
LEFT-CENTER	3.68	14.0"	SA	100
CENTER	7.35	17.75"	GF	90
RIGHT-CENTER	11.03	19.5"	GF	90
RIGHT	14.7	4.0"	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE)				
	0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES			X		
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS			X		
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X							X
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X						X	
NON-WOODY HERBS, GRASSES & FORBS			X						X	
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X						X	
NON-WOODY HERBS, GRASSES & FORBS					X					X
BARREN, BARE DIRT		X				X				
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X			
BUILDINGS		X					X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)		X					X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	125°	5.5"
RIGHT	135°	15.25"
WETTED WIDTH:		14.7
BAR WIDTH:		NA
BANKFULL WIDTH:		15.9
BANKFULL HEIGHT:		15.0"
INCISED HEIGHT:		15.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	11	CENTER RIGHT	17
CENTER LEFT	2	LEFT	7
CENTER DOWN	13	RIGHT	17

Reviewed by (initials): MK ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/10/2021
SITE ID: SS-06A	TEAM MEMBERS: BF, EL

TRANSECT: A-B | B-C | C-D | (D-E) | E-F | F-G | G-H | H-I | I-J | J-K

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (ft)	WETTED WIDTH (ft)	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.0	13.0			X	RI	N	—	
1	1.0				X	RI	N	—	
2	1.0				—	RI	N	—	
3	0.9				—	RI	N	—	
4	0.85				—	GL	N	—	
5	1.05	13.1			—	GL	N	—	FULL E-D
6	1.1				X	GL	N	—	Slope = 1.5%
7	1.1				X	GL	N	—	Bearing = 215°
8	1.0				X	GL	N	—	
9	1.0				X	GL	N	—	
10	0.9				—	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

09:51 4

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06A	TEAM MEMBERS: ME, ME
DATE: 6/10/21	TRANSECT: A B C (D) E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.75	13.0"	GF	50
CENTER	7.5	10.5"	CG	75
RIGHT-CENTER	11.25	9.5"	SA	100
RIGHT	13.0	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS		X			
BOULDERS	X				
ARTIFICAL STRUCTURES		X			

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10-40%)
3 = HEAVY (40-75%)
4 = VERY HEAVY (>75%)

D = DECIDUOUS
C = CONIFEROUS
E = BROADLEAF EVG.
M = MIXED
N = NONE

	LEFT BANK D	C	E	M	N	RIGHT BANK D	C	E	M	N
CANOPY (> 5 M HIGH)										
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)				X			X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X					X		
NON-WOODY HERBS, GRASSES & FORBS				X					X	
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS					X					X
BARREN, BARE DIRT		X					X			

HUMAN INFLUENCE

0 = NOT PRESENT,
C = PRESENT WITHIN 10 m,
P = PRESENT > 10 m AWAY
B = PRESENT ON BANK

	LEFT BANK 0	P	C	B	RIGHT BANK 0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X				X		
BUILDINGS		X				X		
PAVEMENT	X				X			
ROAD/RAILROAD		X				X		
PIPES (INLET/OUTLET)		X				X		
LANDFILL/TRASH	X				X			
PARK/LAWN	X				X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	75°	NA
RIGHT	70°	NA
WETTED WIDTH:		13.0
BAR WIDTH:		NA
BANKFULL WIDTH:		14.9
BANKFULL HEIGHT:		19.0"
INCISED HEIGHT:		14.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	3	CENTER RIGHT	5
CENTER LEFT	17	LEFT	17
CENTER DOWN	9	RIGHT	7

Reviewed by (initials): ME/ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/10/2021
SITE ID: SS-06A	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E **(E-F)** F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.4	13.9			X	GL	N	—	
1	1.39				—	GL	N	—	
2	1.23				X	GL	N	—	
3	1.25				—	GL	N	—	
4	1.20				X	GL	N	—	
5	1.0	16.3			X	GL	N	—	Full
6	0.9				X	GL	N	—	F-E
7	1.0				X	RI	N	—	slope 1.5% bearing 230°
8	1.1				—	RI	N	—	
9	1.35				X	RI	N	—	
10	1.42				X	RI	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

10:07 S

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06A	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.48	13.5"	SA	100
CENTER	6.95	15.5"	GF	25
RIGHT-CENTER	10.43	14.5"	GC	90
RIGHT	13.9	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES			X		
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS			X		
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)					D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0 1 2 3 4					0 1 2 3 4				
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X				X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0 1 2 3 4					0 1 2 3 4				
			X					X		
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS					X					X
BARREN, BARE DIRT	X					X				
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m, P = PRESENT > 10 m AWAY, B = PRESENT ON BANK									
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X			
BUILDINGS		X					X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)		X					X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	70°	NA
RIGHT	80°	NA
WETTED WIDTH:		13.9
BAR WIDTH:		NA
BANKFULL WIDTH:		14.9
BANKFULL HEIGHT:		16.0"
INCISED HEIGHT:		16.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	7	CENTER RIGHT	17
CENTER LEFT	13	LEFT	16 grass
CENTER DOWN	15	RIGHT	17

Reviewed by (initials): MKE

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/10/2021
SITE ID: SS-06A	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F **(F-G)** G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (m)	WETTED WIDTH (m)	BAR WIDTH[1]		SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
			X	(m)					
0	1.51	14.2			X	RI	N	—	
1	1.36				X	RI	N	—	
2	1.33				—	RI	N	—	
3	1.25				—	RI	N	—	
4	0.9				—	RI	N	—	
5	0.9	13.2			—	RI	N	—	Full G-F
6	0.8				—	RI	N	—	Slope = 2.5%
7	0.9				X	RI	N	—	Bearing = 273°
8	0.9				—	RI	N	—	
9	1.05				—	RI	N	—	
10	1.0				—	RI	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- NONE OBSERVED

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

10:22 6

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06A	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.55	15.5"	GC	75
CENTER	7.1	17.0"	GC	90
RIGHT-CENTER	10.65	15.5"	FN	100
RIGHT	14.2	2.5"	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	~~X~~	X			
MACROPHYTES			X		
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS			X		
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)					D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X					X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X					X		
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS					X				X	
BARREN, BARE DIRT	X							X		
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY; B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X			
BUILDINGS		X					X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)		X					X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	60°	NA
RIGHT	135°	4.5"
WETTED WIDTH:		14.2
BAR WIDTH:		NA
BANKFULL WIDTH:		15.9
BANKFULL HEIGHT:		14.0"
INCISED HEIGHT:		14.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	9	CENTER RIGHT	17
CENTER LEFT	5	LEFT	17
CENTER DOWN	14	RIGHT	17

Mix grasses & willows

Reviewed by (initials): MK ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/10/2021
SITE ID: SS-06A	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G **(G-H)** H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.0	13.2			—	RI	N	—	
1	1.0				—	RI	N	—	
2	1.0				X	RI	N	—	
3	1.0				—	RI	N	—	
4	1.05				X	RI	N	—	Full H-G
5	1.0	15.2			—	RI	N	—	Slope = 1.5%
6	1.1				—	RI	N	—	Bearing = 295°
7	1.1				—	RI	N	—	
8	1.1				—	RI	N	—	
9	1.2				X	GL	N	—	
10	1.2				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- NONE OBSERVED

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

10:33 7

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06A	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (m) ~~ft~~	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	9.0"	FN	100
LEFT-CENTER	3.3	11.0"	GC	~~25~~ 75
CENTER	6.6	10.5"	SA	100
RIGHT-CENTER	9.9	10.0"	GC	~~75~~
RIGHT	13.2	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE)				
	0	1	2	3	4
FILEMENTOUS ALGAE	~~X~~	X			
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS		X			
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	**D**	**C**	**E**	**M**	**N**	**D**	**C**	**E**	**M**	**N**
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)				X				X		
UNDERSTORY (0.5 TO 5 m HIGH)	**D**	**C**	**E**	**M**	**N**	**D**	**C**	**E**	**M**	**N**
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X					X		
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	**0**	**1**	**2**	**3**	**4**	**0**	**1**	**2**	**3**	**4**
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS				X				X		
BARREN, BARE DIRT			X					X		
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	**P**	**C**	**B**		**0**	**P**	**C**	**B**	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X			
BUILDINGS		X					X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)		X					X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m) ft~~
LEFT	100°	7.75"
RIGHT	60°	"
WETTED WIDTH:		13.2
BAR WIDTH:		NA
BANKFULL WIDTH:		15.6
BANKFULL HEIGHT:		14.0"
INCISED HEIGHT:		14.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	3	CENTER RIGHT	16
CENTER LEFT	15	LEFT	17
CENTER DOWN	14	RIGHT	17

Reviewed by (initials): MKE

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/10/2021
SITE ID: SS-06A	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G G-H (H-I) I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.35	14.4			—	GL	N	—	
1	1.32				X	GL	N	—	
2	1.35				X	GL	N	—	
3	1.42				X	GL	N	—	
4	1.50				X	GL	N	—	
5	1.55	14.7			X	GL	N	—	
6	1.6				X	GL	N	—	Full I-H Slope = 0.5% Bearing = 277°
7	1.4				X	GL	N	—	
8	1.45				X	GL	N	—	
9	1.50				X	GL	N	—	
10	1.60				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

10:48 8

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: 85-06A	TEAM MEMBERS: MK, ME
DATE: 6/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (m) ~~ft~~	DEPTH ~~(ft)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	5.0"	FN	100
LEFT-CENTER	3.6	14.0"	GC	25
CENTER	7.2	16.0"	GC	10
RIGHT-CENTER	10.8	12.5"	GF	75
RIGHT	14.4	5.0"	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	~~X~~	X			
MACROPHYTES			X		
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS			X		
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)					D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0 1 2 3 4 / X					0 1 2 3 4 / X				
SMALL TREES (TRUNK < 0.3 m DBH)				X			X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0 1 2 3 4 /			X		0 1 2 3 4 /	X			
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X	X			X			
NON-WOODY HERBS, GRASSES & FORBS				~~X~~	X				X	
BARREN, BARE DIRT		X					X			
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY, B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X			
BUILDINGS		X					X			
PAVEMENT	X	~~X~~				X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)	X						X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(ft)~~ (m)
LEFT	100°	2.0"
RIGHT	105°	10.5"
WETTED WIDTH:		14.4
BAR WIDTH:		NA
BANKFULL WIDTH:		14.5
BANKFULL HEIGHT:		13.0"
INCISED HEIGHT:		13.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	5	CENTER RIGHT	0
CENTER LEFT	16	LEFT	17
CENTER DOWN	2	RIGHT	17 (grass)

Reviewed by (initials): MME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/10/2021
SITE ID: SS-06A	TEAM MEMBERS: BF, EL

TRANSECT: A-B | B-C | C-D | D-E | E-F | F-G | G-H | H-I | (I-J) | J-K

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.46	21.0			X	GL	N	—	
1	1.30				X	GL	N	—	
2	1.30				X	GL	N	—	
3	1.30				X	GL	N	—	
4	1.35				X	GL	N	—	FULL J-1
5	1.40	16.0			X	GL	N	—	Slope = 0.5%
6	1.40				X	GL	N	—	Bearing = 270°
7	1.30				X	GL	N	—	
8	1.30				X	GL	N	—	
9	1.35				X	GL	N	—	
10	1.25				X	GL	N		
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

11:00 9

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06A	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	9.0"	FN	100
LEFT-CENTER	5.25	18.0"	GF	50
CENTER	10.5	15.5"	GF	75
RIGHT-CENTER	15.75	9.5"	FN	100
RIGHT	21.0	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE)				
	0	1	2	3	4
FILEMENTOUS ALGAE	~~X~~ MKE	X			
MACROPHYTES				X	
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS			X		
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)				X			X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
				X				X		
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS					X				X	
BARREN, BARE DIRT		X						X		
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X			
BUILDINGS		X					X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)	X						X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	100°	3.25"
RIGHT	20°	NA
WETTED WIDTH:		21.0
BAR WIDTH:		NA
BANKFULL WIDTH:		24.4
BANKFULL HEIGHT:		11.0"
INCISED HEIGHT:		11.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)			
CENTER UP	1	CENTER RIGHT	0
CENTER LEFT	13	LEFT	17
CENTER DOWN	0	RIGHT	14

mix w. willow, grass

Reviewed by (initials): MK/ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBL	DATE: 08/10/2021
SITE ID: SS-06A	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G G-H H-I I-J (J-K)

THALWEG PROFILE

INCREMENT (m): 1.72

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.3	19.1			X	GL	N	—	
1	1.3				X	GL	N	—	
2	1.2				X	GL	N	—	
3	1.5				X	GL	N	—	
4	1.35				X	GL	N	—	
5	1.20	20.6			X	GL	N	—	FULL K-J
6	1.1				X	GL	N	—	Slope = 1%
7	0.95				—	GL	N	—	Bearing = 255°
8	1.04				—	GL	N	—	
9	1.05				—	GL	N	—	
10	1.06				X	GL	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

11:21 10/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06A	TEAM MEMBERS: MK, ME
DATE: 8/10/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	~~0~~ 13.0"	FN	100
LEFT-CENTER	4.78	15.0"	GF	25
CENTER	9.55	16.5"	SA	100
RIGHT-CENTER	14.33	9.5"	FN	100
RIGHT	19.1	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	~~30°~~ 110°	~~0.5~~ 10.5"
RIGHT	30°	NA
WETTED WIDTH:		19.1
BAR WIDTH:		NA
BANKFULL WIDTH:		21.6
BANKFULL HEIGHT:		11.0"
INCISED HEIGHT:		11.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	~~X~~ NONE	X			
MACROPHYTES			X		
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS			X		
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	0	CENTER RIGHT	1
CENTER LEFT	15	LEFT	17
CENTER DOWN	0	RIGHT	17

MAX 17's Will

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK	RIGHT BANK
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)	D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE

CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X							X
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X							X
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X						X	
NON-WOODY HERBS, GRASSES & FORBS				X				X		
BARREN, BARE DIRT		X					X			

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m, 0	P	C	B	P = PRESENT > 10 m AWAY, B = PRESENT ON BANK 0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X				X		
BUILDINGS		X				X		
PAVEMENT	X				X			
ROAD/RAILROAD		X				X		
PIPES (INLET/OUTLET)		X				X		
LANDFILL/TRASH	X				X			
PARK/LAWN	X				X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): MK/ME

11:34 W

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: 85-06A	TEAM MEMBERS: NK, ME
DATE: 6/10/21	TRANSECT: A B C D E F G H I J ~~K~~	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~ "	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	9.25"	FN	100
LEFT-CENTER	4.8	12.5"	GC	75
CENTER	9.6	13.5"	SA	100
RIGHT-CENTER	14.4	10.0"	SA	100
RIGHT	19.2	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	60°	NA
RIGHT	100°	7.5"
WETTED WIDTH:		19.2
BAR WIDTH:		NA
BANKFULL WIDTH:		20.6
BANKFULL HEIGHT:		14.0"
INCISED HEIGHT:		14.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE)				
	0	1	2	3	4
FILEMENTOUS ALGAE	~~X~~ NONE	X			
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS		X			
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	0	CENTER RIGHT	1
CENTER LEFT	10	LEFT	17
CENTER DOWN	1	RIGHT	17

Mix of grass

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	**D**	**C**	**E**	**M**	**N**	**D**	**C**	**E**	**M**	**N**
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0 / X	1	2	3	4	0 / X	1	2	3	4
SMALL TREES (TRUNK < 0.3 m DBH)			X							X
UNDERSTORY (0.5 TO 5 m HIGH)	**D**	**C**	**E**	**M**	**N**	**D**	**C**	**E**	**M**	**N**
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2 / X	3	4	0	1	2	3 / X	4
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	**0**	**1**	**2**	**3**	**4**	**0**	**1**	**2**	**3**	**4**
WOODY SHRUBS & SEEDLINGS			X						X	
NON-WOODY HERBS, GRASSES & FORBS			X						X	
BARREN, BARE DIRT			X				X			

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m, P = PRESENT > 10 m AWAY, B = PRESENT ON BANK							
	0	**P**	**C**	**B**	**0**	**P**	**C**	**B**
WALL/DIKE/REVETMENT/RIP RAP/DAM		X				X		
BUILDINGS		X				X		
PAVEMENT	X				X			
ROAD/RAILROAD		X				X		
PIPES (INLET/OUTLET)		X				X		
LANDFILL/TRASH	X				X			
PARK/LAWN	X				2			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): MWE

RAPID HABITAT ASSESSMENT FORM: RIFFLE/RUN PREVALENCE - STREAMS

STREAM NAME:	SILVER BOW CREEK	DATE:	8/9/21
SITE ID:	SS-06G	TEAM:	BF / EL

TOTAL SCORE:	CATEGORY			
HABITAT PARAMETER	OPTIMAL	SUB-OPTIMAL	MARGINAL	POOR
1. INSTREAM COVER (FISH)	Greater than 50% mix of boulder, cobble, submerged logs, undercut banks, or other stable habitat.	30 to 50% mix of boulder, cobble, or other stable habitat; adequate habitat.	10 to 30% mix of boulder, cobble, or other stable habitat; habitat availablity is less than desirable.	Less than 10% of boulder, cobble, or other stable habitat; lack of habitat is obvious.
SCORE:	20 19 18 17 16	15 14 13 12 (11)	10 9 8 7 6	5 4 3 2 1
2. EPIFAUNAL SUBSTRATE	Well-developed riffle and run; riffle is as wide as stream and its length extends two times the width of stream; abundance of cobble.	Riffle is as wide as stream, but its length is less than two times as width; abundance of cobble; boulders and gravel common.	Run area may be lacking; reduced riffle area that does not extend across entire cross section and is less than two times the width; gravel or large boulders and bedrock prevalent; cobble present.	Riffles or run virtually non-existent; gravel or large boulders and bedrock prevalent; cobble lacking.
SCORE:	20 19 18 17 (16)	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
3. EMBEDDEDNESS	Gravel, cobble, and boulder particles are between 0 and 25% surrounded by fine sediment.	Gravel, cobble, and boulder particles are between 25 and 50% surrounded by fine sediment.	Gravel, cobble, and boulder particles are between 50 and 75% surrounded by fine sediment.	Gravel, cobble, and boulder particles are between 75% surrounded by fine sediment.
SCORE:	20 19 18 17 (16)	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
4. VELOCITY/DEPTH REGIMES	All four velocity regimes are present (slow-deep, slow-shallow, fast-deep, fast-shallow).	Only three of the four velocity regimes are present (if fast-shallow is missing, score lower than if other regimes are missing).	Only two of the four velocity regimes are present (if fast-shallow or slow-shallow are missing, score low).	Dominated by one velocity regime (usually slow deep).
SCORE:	20 19 18 17 16	15 14 13 12 11	10 (9) 8 7 6	5 4 3 2 1
5. CHANNEL ALTERATION	No channelization is present.	Some channelization is present, usually in areas of bridge abutments; evidence of past channelization, i.e. dredging (greater than past 20 yr) may be present, but recent channelization is not present.	New embankments are present on both banks; and 40 to 80% of the stream reach is channelized and disrupted.	Banks shored with gabion or cement; over 80% of the reach is channelized and disrupted.
SCORE:	20 19 18 17 16	15 14 13 12 (11)	10 9 8 7 6	5 4 3 2 1
6. SEDIMENT DEPOSITION	Little or no enlargement of islands or point bars and less than 5% of the bottom is affected by sediment deposition.	Some new increase in bar formation, mostly from coarse gravel; 5 to 30% of the bottom is affected; slight deposition in pools.	Moderate deposition of new gravel or coarse sand on old and new bars; 30 to 50% of the bottom is affected; sediment deposits as obstructions, constrictions, and bends; moderate deposition of pools prevalent.	Heavy deposits of fine material; increased bar development; more than 50% of the bottom is changing frequently; pools almost absent due to substantial sediment deposition.
SCORE:	20 19 18 17 (16)	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1

Lacks substrate diversity

Well-developed riffle, but fewer run sequences

Consistent fast velocity throughout

7. FREQUENCY OF RIFFLES	Occurrence of riffles is relatively frequent; the distance between riffles divided by the width of the stream equals 5 to 7; variety of habitat.	Occurrence of riffles is infrequent; the distance between riffles divided by the width of the stream equals 7 to 15.	Occasional riffle or bend; bottom contours provide some habitat; the distance between riffles divided by the width of the stream equals 15 to 25.	Generally all flat water or shallow riffles; poor habitat; the distance between riffles divided by the width of the stream is greater than 25.
SCORE:	20 19 18 17 (16)	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
8. CHANNEL FLOW STATUS	Water reaches the base of both banks and a minimal area of channel substrate is exposed.	Water fills more than 75% of the available channel; or less than 25% of channel substrate is exposed.	Water fills 25 to 75% of the available channel; and/or riffle substrates are mostly exposed.	Very little water in channel and mostly present as standing pools.
SCORE:	20 19 (18) 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
9. CONDITION OF BANKS	Banks stable; no evidence of erosion or bank failure.	Banks moderately stable; infrequent, small areas of erosion mostly healed over.	Banks moderately unstable; up to 60% of banks in the reach have areas of erosion.	Banks unstable; many eroded areas; "raw" areas frequent along straight sections and bemds; on side slopes, 60 to 100% of bank has erosional scars.
SCORE:	20 19 (18) 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
10. BANK VEGETATIVE PROTECTION	More than 90% of the stream bank surfaces are covered by vegetation.	70 to 90% of the stream bank surfaces are covered by vegetation.	50 to 70% of the stream bank surfaces are covered by vegetation.	Less than 50% of the stream bank surfaces are covered by vegetation.
SCORE:	20 19 (18) 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
11. GRAZING OR OTHER DISRUPTIVE PRESSURE	Vegetative disruption, through grazing or mowing is minimal or not evident; almost all plants are allowed to grow naturally.	Disruption is evident but is not affecting full plant growth potential to any great extent; more than half of the potential plant stubble height remaining.	Disruption is obvious; patches of bare soil or clossely cropped vegetation are common; less than half of the potential plant stubble height remaining.	Dispruption of stream bank vegetation is very high; vegetation has been removed to 2 inches ore less in average stubble height.
SCORE:	20 19 (18) 17 16	15 14 (13) 12 11	10 9 8 7 6	5 4 3 2 1
12. RIPARIAN VEGETATION ZONE WIDTH (LEAST SUFFERED SIDE)	Width of riparian zone is greater than 18m; human activities, i.e. parking lots, roadbeds, clearcuts, lawns, or crops, have not impacted this zone.	Riparian zone width is between 12 and 18m; human activities have only minimaly impacted the riparian zone.	Riparian zone width is between 6 and 12m; human activities have greatly impacted the riparian zone.	Riparian zone width is less than 6m; little to no riparian vegetation due to human activities.
SCORE:	20 19 18 17 16	15 14 13 (12) 11	10 9 8 (7) 6	5 4 3 2 1

More disrupted riparian zone on d/s LB

LAC = ~~disrupted~~ disruptive pressure on LB

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-066	TEAM MEMBERS: ME, MK, BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE							INCREMENT (m): 1.76		
STATION	THALWEG DEPTH (~~m~~) ft	WETTED WIDTH (~~m~~) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	2.0	20.3			—	RI	— N	—	
1	1.6				—	RI	— N	—	
2	1.5				X	RI	— N	—	
3	1.8				—	RI	— N	—	
4	1.4				—	RI	N	—	
5	1.44	12.1			X	RI	N	—	
6	1.65				—	RA	N	—	
7	1.3				X	RI	N	—	
8	1.32				X	RI	N	—	
9	1.58				X	RI	N	—	
10	1.34				—	RI	N	—	
11									Full B-A
12									Slope: 2%
13									Bearing: 275°
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)
-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

Rep A = N 45.99640 W-112.56271 Rep B = N 45.99632, W-112.56228
Rep C = N 45.99630 W-112.56206 Rep D = N 45.99625 W-112.56164
Temp = 15.0 DO = 8.06 SG = 1594.0 pH = 7.66 ORP = 81.8

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: 85-06 G	TEAM MEMBERS: MC, MK
DATE: 8/9/21	TRANSECT: (A) B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (m)	DEPTH (m)	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0.1	FN	100
LEFT-CENTER	5.075	2.2	CB	25%
CENTER	10.15	2.4	CB	0
RIGHT-CENTER	15.075	1.35	GF	0
RIGHT	20.3	0.1	SA	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE (m)
LEFT	170°	~~170~~ 0.5
RIGHT	110°	0.15
WETTED WIDTH:		20.3
BAR WIDTH:		NA
BANKFULL WIDTH:		~~20.6~~ 23.6
BANKFULL HEIGHT:		~~0.05~~ 0.8
INCISED HEIGHT:		0.8

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE				X	
UNDERCUT BANKS			X		
BOULDERS			X		
ARTIFICAL STRUCTURES		X			

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	14	CENTER RIGHT	17
CENTER LEFT	0	LEFT	17
CENTER DOWN	2	RIGHT	17

LB canopy is grass

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10-40%)
3 = HEAVY (40-75%)
4 = VERY HEAVY (>75%)

D = DECIDUOUS
C = CONIFEROUS
E = BROADLEAF EVG.
M = MIXED
N = NONE

	LEFT BANK					RIGHT BANK				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)					X	X	MK			
	0	**1**	**2**	**3**	**4**	**0**	**1**	**2**	**3**	**4**
BIG TREES (TRUNK > 0.3 m DBH)	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)	X									X
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
	0	**1**	**2**	**3**	**4**	**0**	**1**	**2**	**3**	**4**
WOODY SHRUBS & SAPLINGS	X									X
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	**0**	**1**	**2**	**3**	**4**	**0**	**1**	**2**	**3**	**4**
WOODY SHRUBS & SEEDLINGS		X						X		
NON-WOODY HERBS, GRASSES & FORBS		X							X	
BARREN, BARE DIRT			X				X			

HUMAN INFLUENCE

0 = NOT PRESENT,
C = PRESENT WITHIN 10 m,
P = PRESENT > 10 m AWAY
B = PRESENT ON BANK

	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM			MK X	X				X
BUILDINGS	X					X		
PAVEMENT	X					X		
ROAD/RAILROAD		X				X		
PIPES (INLET/OUTLET)	X					X		
LANDFILL/TRASH	X				X			
PARK/LAWN	X				X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): MK

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-066	TEAM MEMBERS: BF, EL

TRANSECT: A-B (B-C) C-D D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.76

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.26	16.8			X	RI	N	—	
1	1.47				X	RI	N	—	
2	1.15				—	RA	N	—	
3	1.34				X	RI	N	—	
4	1.41				—	RA	N	—	
5	1.6	12.31			—	RI	N	—	
6	1.38				—	RI	N	—	
7	1.80				—	RI	N	—	
8	1.44				X	RI	N	—	
9	1.79				—	RI	N	—	
10	1.65				—	RI	N	—	
11									Full C-B
12									Slope: 1.5%.
13									Bearing: 270°
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

Inches not 1/10

2

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-066	TEAM MEMBERS: MK, ME
DATE: 6/9/21	TRANSECT: A (B) C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (m)	DEPTH (m)	SIZE CLASS CODE	EMBED 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	4.2	16.5"	CB	75
CENTER	8.4	12.75"	SA	100
RIGHT-CENTER	12.6	14.0"	GF	10
RIGHT	16.9	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE (m)
LEFT	~~78~~ ~~0~~	NA
RIGHT	56°	NA
WETTED WIDTH:		16.8
BAR WIDTH:		NA
BANKFULL WIDTH:		17.7
BANKFULL HEIGHT:		0.92
INCISED HEIGHT:		0.92

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES	X				
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS		X			
BOULDERS			X		
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	10	CENTER RIGHT	17
CENTER LEFT	17	LEFT	17
CENTER DOWN	11	RIGHT	17

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)						D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0 X	1	2	3	4	0 X	1	2	3	4
SMALL TREES (TRUNK < 0.3 m DBH)			X					X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2 X	3	4	0	1	2 X	3	4
NON-WOODY HERBS, GRASSES & FORBS		X							X	
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS		X						X		
NON-WOODY HERBS, GRASSES & FORBS		X								X
BARREN, BARE DIRT		X				X				
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM				X			X			
BUILDINGS	X						X			
PAVEMENT	X					X	~~X~~ NA			
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)	X						X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

Reviewed by (initials): ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-06G	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C (C-D) D-E E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.76

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.85	12.4			—	RI	N	—	
1	1.7				—	RA	N	—	
2	1.3				—	RI	N	—	
3	1.35				—	RI	N	—	
4	1.35				—	RI	N	—	
5	1.29	13.05			—	RI	N	—	
6	1.1				—	RI	N	—	
7	1.09				—	RI	N	—	
8	1.0				—	RI	N	—	
9	1.15				—	RI	N		FULL D-C
10	1.38				—	RI	N		Slope = 2%
11									Bearing = 267°
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

~1440 3/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06G	TEAM MEMBERS: MK, ME
DATE: 8/9/21	TRANSECT: A B (C) D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH (m)	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	2.25"	FN	100
LEFT-CENTER	3.1	19"	GC	25%
CENTER	6.2	19"	BL	0
RIGHT-CENTER	9.3	21.5"	CB	0
RIGHT	12.4	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	135°	4.5"
RIGHT	45°	NA
WETTED WIDTH:		12.4
BAR WIDTH:		NA
BANKFULL WIDTH:		13.9
BANKFULL HEIGHT:		11"
INCISED HEIGHT:		11"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS		X			
BOULDERS			X		
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	15	CENTER RIGHT	17
CENTER LEFT	16	LEFT	15
CENTER DOWN	15	RIGHT	17

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0 X	1	2	3	4	0 X	1	2	3	4
SMALL TREES (TRUNK < 0.3 m DBH)			X					X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2 X	3	4	0	1	2 X	3	4
NON-WOODY HERBS, GRASSES & FORBS			X						X	
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS				X						X
BARREN, BARE DIRT	X						X			
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM				X					X	
BUILDINGS	X						X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)	X						X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

Reviewed by (initials): MK ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-06G	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D **(D-E)** E-F F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.76

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.35	15			X	RI	N	—	
1	1.25				—	RI	N	—	
2	1.05				—	RI	N	—	
3	1.25				X	RI	N	—	
4	1.23				X	RI	N	—	
5	1.1	16.4			X	RI	N	—	
6	1.1				—	RI	N	—	
7	0.95				—	RI	N	—	
8	1.25				—	RI	N	—	
9	0.85				—	RI	N	—	
10	0.95				—	RI	N	—	Full D-E Slope = 2% Bearing = 275°
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- NONE OBSERVED

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

14:54 4/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: 45-066	TEAM MEMBERS: MK, MG
DATE: 8/7/21	TRANSECT: A B C (D) E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (m) ~~ft~~	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.75	13"	CG	75
CENTER	7.5	11"	RS	0
RIGHT-CENTER	11.25	12"	CG	50
RIGHT	15	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE)				
	0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS		X			
BOULDERS		X			
ARTIFICAL STRUCTURES	X				

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0 1 2 3 4 X					0 1 2 3 4 X				
SMALL TREES (TRUNK < 0.3 m DBH)				X					X	
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0 1 2 3 4 X					0 1 2 3 4 X				
NON-WOODY HERBS, GRASSES & FORBS				X				X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS					X				X	
BARREN, BARE DIRT		X						X		
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM				X			X			
BUILDINGS	X						X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)	X						X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~
LEFT	65°	N/A
RIGHT	35°	N/A
WETTED WIDTH:		15.0
BAR WIDTH:		N/A
BANKFULL WIDTH:		17.9
BANKFULL HEIGHT:		10.1'
INCISED HEIGHT:		10.0'

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	13	CENTER RIGHT	16
CENTER LEFT	17	LEFT	17
CENTER DOWN	16	RIGHT	16

Reviewed by (initials): MME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-06G	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E **(E-F)** F-G G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.76

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	0.85	14.2			—	RI	N	—	
1	1.0				—	RI	N	—	
2	0.95				X	RI	N	—	
3	1.0				—	RI	N	—	
4	1.2				—	RI	N	—	
5	1.6	14.1			—	RI	N	—	
6	1.83				X	RI	N	—	
7	1.76				—	RI	N	—	
8	1.35				—	RI	N	—	Full FE
9	1.55				—	RI	N	—	Slope = 0.5%
10	1.40				—	RI	N	—	Bearing = 263°
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

15:22 5

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06G	TEAM MEMBERS: MK, ME
DATE: 8/9/21	TRANSECT: A B C D (E) F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m) ft~~	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100% (%)
LEFT	0	0	FN	100
LEFT-CENTER	3 5/10	9.5"	CG	25
CENTER	7 1/10	10.0"	CG	10
RIGHT-CENTER	11	9.25"	CG	25
RIGHT	14 3/10	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

	COVER IN-CHANNEL (X ONE) 0 = ABSENT (0%)	1 = SPARSE (<10%)	2 = MODERATE (10 - 40%)	3 = HEAVY (40 - 75%)	4 = VERY HEAVY (>75%)
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS		X			
BOULDERS		X			
ARTIFICAL STRUCTURES		X			

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
0 = ABSENT (0%), 1 = SPARSE (<10%), 2 = MODERATE (10-40%), 3 = HEAVY (40-75%), 4 = VERY HEAVY (>75%)						D = DECIDUOUS, C = CONIFEROUS, E = BROADLEAF EVG., M = MIXED, N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X			~~X~~		X				
BIG TREES (TRUNK > 0.3 m DBH)	0 1 2 3 4					0 1 2 3 4				
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X							X
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0 1 2 3 4					0 1 2 3 4				
			~~X~~					X		
NON-WOODY HERBS, GRASSES & FORBS					X				X	
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS					X					X
BARREN, BARE DIRT		X				X				
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY, B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM				X			X			
BUILDINGS	X						X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)		X					X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 (°)	UNDERCUT DISTANCE ~~(m) ft~~
LEFT	40	NA
RIGHT	35	NA
WETTED WIDTH:		14 3/10
BAR WIDTH:		NA
BANKFULL WIDTH:		15.5/10
BANKFULL HEIGHT:		14"
INCISED HEIGHT:		14"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	14	CENTER RIGHT	17
CENTER LEFT	17	LEFT	17
CENTER DOWN	17	RIGHT	17

Reviewed by (initials): MKE

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-06G	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F **(F-G)** G-H H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.76

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.40	13.7			X	RI	N	—	
1	1.40				—	RI	N	—	
2	1.50				—	RI	N	—	
3	1.0				—	RI	N	—	
4	0.90				—	RI	N	—	
5	0.95	13.8			—	RI	N	—	
6	0.90				—	RI	N	—	
7	0.80				—	RI	N	—	Full G-F
8	1.0				—	RI	N	—	Slope = 3.5%
9	1.2				—	RI	N	—	Bearing = 225°
10	1.1				—	RI	N	—	
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

15:41 6/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: 85-06G	TEAM MEMBERS: MK, ME
DATE: 8/4/21	TRANSECT: A B C D E ~~F~~ G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100% (6)
LEFT	0	0	FN	100
LEFT-CENTER	3.435	12.0"	CG	10
CENTER	6.95	16.5"	CG	10
RIGHT-CENTER	10.275	13.5"	~~SA~~	100
RIGHT	13.7	1.5"	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	55°	NA
RIGHT	135°	6.5"
WETTED WIDTH:		13.7
BAR WIDTH:		NA
BANKFULL WIDTH:		14.2
BANKFULL HEIGHT:		~~14.7~~ ME 10.0"
INCISED HEIGHT:		10.6"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		~~X~~ ME	X		
UNDERCUT BANKS			X		
BOULDERS		X			
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	0	CENTER RIGHT	14
CENTER LEFT	13	LEFT	17
CENTER DOWN	9	RIGHT	17

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0 1 2 3 4					0 1 2 3 4				
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)			X					X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0 1 2 3 4					0 1 2 3 4				
			X					X		
NON-WOODY HERBS, GRASSES & FORBS			X					X		~~X~~ ME
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS					X					X
BARREN, BARE DIRT	X					~~X~~				
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X			
BUILDINGS	X						X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)	X						X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

Reviewed by (initials): ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-066	TEAM MEMBERS: BF[redacted], EL

TRANSECT: A-B B-C C-D D-E E-F F-G (G-H) H-I I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.76

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.3	13.6			—	RI	N	—	
1	1.25				—	RI	N	—	
2	1.33				—	RI	N	—	
3	1.3				—	RI	N	—	
4	1.3				X	RI	N	—	
5	0.9	14.2			—	RI	N	—	
6	1.25				X	RI	N	—	
7	1.3				X	GL[redacted]	N	—	
8	1.55				X	GL	N	—	90% [redacted]
9	1.45				X	GL	N	—	[redacted]% H-G Slope = 2% Bearing = 255°
10	1.35				—	GL	N	—	[redacted]% H-G Slope = 0% Bearing = 230° (10%
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

15:57 7/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-066	TEAM MEMBERS: MK, ME
DATE: 8/9/21	TRANSECT: A B C D E F (G) H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m) ft~~	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	3.5"	FN	100
LEFT-CENTER	3.4	12.5"	SA	100
CENTER	6.4	16.75"	SA	100
RIGHT-CENTER	10.02	13.5"	GF	90
RIGHT	13.6	10.5"	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360°	UNDERCUT DISTANCE ~~(m) ft~~
LEFT	154	6"0
RIGHT	150	4.25"
WETTED WIDTH:		13.6
BAR WIDTH:		NA
BANKFULL WIDTH:		15.3
BANKFULL HEIGHT:		11.0"
INCISED HEIGHT:		11.0"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES	X				
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS		X			
BOULDERS		X			
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	12	CENTER RIGHT	15
CENTER LEFT	15	LEFT	17
CENTER DOWN	10	RIGHT	16

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK	RIGHT BANK
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)	D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE

CANOPY (> 5 M HIGH)	L D	L C	L E	L M	L N	R D	R C	R E	R M	R N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)				X	X			X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X	MK				X		
NON-WOODY HERBS, GRASSES & FORBS			X	ME				X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X	MK	
NON-WOODY HERBS, GRASSES & FORBS					X				ME	X
BARREN, BARE DIRT	X						X			

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m, P = PRESENT > 10 m AWAY, B = PRESENT ON BANK							
	L 0	L P	L C	L B	R 0	R P	R C	R B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X				X		
BUILDINGS	X					X		
PAVEMENT	X				X			
ROAD/RAILROAD		X				X		
PIPES (INLET/OUTLET)		X				X		
LANDFILL/TRASH	X				X			
PARK/LAWN	X				X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

Reviewed by (initials): MK ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-066	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G G-H **(H-I)** I-J J-K

THALWEG PROFILE

INCREMENT (m): 1.76

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	1.4	13.6			X	GL	N	—	
1	1.9				X	PT	U	—	
2	2.2				—	PT	U	—	
3	2.7				—	PT	U	—	
4	1.2				—	RI	N	—	
5	1.6	14.4			—	RI	N	—	
6	1.75				—	RI	N	—	
7	1.4				—	RI	N	—	
8	1.4				—	RI	N	—	FULL I-H
9	1.0				—	RI	N	—	Slope = 0.5%
10	1.45				X	RI	N	—	Bearing = 290°
11									
12									
13									
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

16:21 8/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: 85-86 G	TEAM MEMBERS: MK, ME
DATE: 8/9/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB (~~m~~) ft	DEPTH (~~cm~~)	SIZE CLASS CODE	EMBED. 0-100%
LEFT	6	3"	FN	100
LEFT-CENTER	3.4	15.75"	CB	75
CENTER	6.8	14.0"	SA	100
RIGHT-CENTER	10.2	17.5"	SA	100
RIGHT	13.6	12.5"	SA	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE (~~m~~) ft
LEFT	110°	7.25"
RIGHT	110°	10.0"
WETTED WIDTH:		13.6
BAR WIDTH:		NA
BANKFULL WIDTH:		15.2
BANKFULL HEIGHT:		12.5"
INCISED HEIGHT:		12.5"

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		~~X~~ MK	X		
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE			X		
UNDERCUT BANKS			X		
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	3	CENTER RIGHT	1
CENTER LEFT	16	LEFT	17
CENTER DOWN	13	RIGHT	17

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)						D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)				X			X			
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X				X			
NON-WOODY HERBS, GRASSES & FORBS			X					X		
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X				X			
NON-WOODY HERBS, GRASSES & FORBS					X			X		
BARREN, BARE DIRT	X							X		
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X						X		
BUILDINGS	X						X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)		X						X		
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

Reviewed by (initials): MK/ME

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-06G	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G G-H H-I (I-J) J-K

THALWEG PROFILE

INCREMENT (m): 1.76

STATION	THALWEG DEPTH (m) ft	WETTED WIDTH (m) ft	BAR WIDTH[1] X	BAR WIDTH[1] (m)	SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
0	0.9	14.9			—	RI	N	—	
1	1.0				X	RI	N	—	
2	0.85				—	RI	N	—	
3	0.9				—	RI	N	—	
4	0.75				—	RI	N	—	
5	0.90	15.0			—	RI	N	—	
6	1.0				—	RI	N	—	
7	0.8				—	RI	N	—	Full J-1
8	0.85				—	RI	N	—	Slope = 2%
9	1.0				—	GL	N	—	Bearing = 350°
10	1.2				—	GL	N	—	
11									J-1
12									Slope = 87
13									Bearing =
14									

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- None Observed

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

16:43 9/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-066	TEAM MEMBERS: MK, ME
DATE: 8/9/21	TRANSECT: A B C D E F G H I J K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m) ft~~	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.7	12.0"	GC	10
CENTER	7.4	13.0"	SA	100
RIGHT-CENTER	11.1	14.0	SA	100
RIGHT	14.9	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE)				
	0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES			X		
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS		X			
BOULDERS	X				
ARTIFICAL STRUCTURES		X			

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%) 1 = SPARSE (<10%) 2 = MODERATE (10-40%) 3 = HEAVY (40-75%) 4 = VERY HEAVY (>75%)					D = DECIDUOUS C = CONIFEROUS E = BROADLEAF EVG. M = MIXED N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X									X
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)				X		X				
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X				X			
NON-WOODY HERBS, GRASSES & FORBS			X						X	
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X				X			
NON-WOODY HERBS, GRASSES & FORBS					X				X	
BARREN, BARE DIRT	X							X		
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X						X		
BUILDINGS	X	X					X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)		X					X	X		
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m) ft~~
LEFT	53°	NA
RIGHT	55°	NA
WETTED WIDTH:		14.9
BAR WIDTH:		NA
BANKFULL WIDTH:		15.1
BANKFULL HEIGHT:		9.0"
INCISED HEIGHT:		9.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	12	CENTER RIGHT	0
CENTER LEFT	16	LEFT	17
CENTER DOWN	8	RIGHT	12

Reviewed by (initials): MWE

THALWEG PROFILE & WOODY DEBRIS FORM

STREAM NAME: SBC	DATE: 08/09/2021
SITE ID: SS-06G	TEAM MEMBERS: BF, EL

TRANSECT: A-B B-C C-D D-E E-F F-G G-H H-I I-J (J-K)

THALWEG PROFILE

INCREMENT (m): 1.76

STATION	THALWEG DEPTH (m)	WETTED WIDTH (m)	BAR WIDTH[1]		SOFT/ SMALL SEDIMENT X for YES	CHANNEL UNIT CODE	POOL FORM CODE	SIDE CHANNEL X for YES	COMMENTS
			X	(m)					
0	1.3	14.9			X	GL	N	—	
1	1.4				X	GL	N	—	
2	1.3				—	GL	N	—	
3	1.2				—	GL	N	—	
4	1.3				X	GL	N	—	
5	2.0	14.0			—	GL	N	—	
6	1.7				—	GL	N	—	
7	1.80				—	GL	N	—	
8	1.80				X	GL	N	—	80% K-J
9	1.2				—	RI	N	—	Slope = 1.5%
10	1.15				X	RI	N	—	Bearing = 290°
11									
12									20% K-J
13									Slope = 0.5%
14									Bearing = 335%

[1] Measure bar width at station 0 and mid-station (5 or 7).

LARGE WOODY DEBRIS (≥ 10 cm small end diameter; ≥ 1.5 m length)

-Tally Each Piece- NONE OBSERVED

DIAMETER LARGE END	PIECES ALL/PART IN BANKFULL CHANNEL			PIECES SPANNING BANKFULL CHANNEL		
	Length 1.5 - 5m	5 - 15 m	> 15 m	Length 1.5 - 5m	5 - 15 m	> 15 m
0.1 to <0.3m						
0.3 - 0.6 m						
0.6 - 0.8 m						
> 0.8 m						

POOL FORM CODES	
N	Not a pool
W	Large Woody Debris
R	Rootwad
B	Boulder or Bedrock
U	Unknown, fluvial
O	Other (see comments)

CHANNEL UNIT CODES	
PP	Pool, Plunge
PT	Pool, Trench
PL	Pool, Lateral Scour
PB	Pool, Backwater
OD	Pool, Impoundment
GL	Glide
RI	Riffle
RA	Rapid
CA	Casade
FA	Falls
DR	Dry Channel

COMMENTS

16:58 10/

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-066	TEAM MEMBERS: MK, ME
DATE: 8/9/21	TRANSECT: A B C D E F G H I ~~J~~ K	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m) (ft)~~	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	4.15	13.75"	SA	100
CENTER	9.3	15.0"	GC	50
RIGHT-CENTER	12.45	12.0"	GF	50
RIGHT	16.6	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS		X			
BOULDERS	X				
ARTIFICAL STRUCTURES	X				

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)					D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0	1	2	3	4	0	1	2	3	4
	X					X				
SMALL TREES (TRUNK < 0.3 m DBH)				X				X		
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2	3	4	0	1	2	3	4
			X					X		
NON-WOODY HERBS, GRASSES & FORBS			X						X	
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS				X						X
BARREN, BARE DIRT	X						X			
HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m,					P = PRESENT > 10 m AWAY, B = PRESENT ON BANK				
	0	P	C	B		0	P	C	B	
WALL/DIKE/REVETMENT/RIP RAP/DAM		X					X			
BUILDINGS	X						X			
PAVEMENT	X					X				
ROAD/RAILROAD		X					X			
PIPES (INLET/OUTLET)		X					X			
LANDFILL/TRASH	X					X				
PARK/LAWN	X					X				
ROW CROPS	X					X				
PASTURE/RANGE/HAY FIELD	X					X				
LOGGING OPERATIONS	X					X				
MINING ACTIVITY	X					X				

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m) (ft)~~
LEFT	56°	NA
RIGHT	45°	NA
WETTED WIDTH:		16.6
BAR WIDTH:		NA
BANKFULL WIDTH:		18.2
BANKFULL HEIGHT:		4.0"
INCISED HEIGHT:		4.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	14	CENTER RIGHT	13
CENTER LEFT	17	LEFT	17
CENTER DOWN	9	RIGHT	15

Reviewed by (initials): MK ME

17:12 11

CHANNEL / RIPARIAN CROSS-SECTION 7 THALWEG PROFILE FORM

STREAM NAME: SBC	SITE ID: SS-06G	TEAM MEMBERS: MK, ME
DATE: 8/4/21	TRANSECT: A B C D E F G H I J	

I. SUBSTRATE CROSS-SECTIONAL INFORMATION

LOCATION	DISTANCE FROM LB ~~(m)~~ ft	DEPTH ~~(m)~~	SIZE CLASS CODE	EMBED. 0-100%
LEFT	0	0	FN	100
LEFT-CENTER	3.73	10.0"	SA	100
CENTER	7.45	11.5"	GC	100
RIGHT-CENTER	11.18	12.5"	SA	100
RIGHT	14.9	0	FN	100

SUBSTRATE SIZE CLASS CODES

RS = BEDROCK (SMOOTH, LARGER THAN A CAR)
RR = BEDROCK (ROUGH, LARGER THAN A CAR)
BL = BOULDER (250 - 4,000 MM, BASKETBALL TO CAR)
CB = COBBLE (64 - 250 MM, TENNIS BALL TO BASKETBALL)
GC = COARSE GRAVEL (16 - 64 MM, MARBLE TO TENNIS BALL)
GF = FINE GRAVEL (2 - 16 MM, LADYBUG TO MARBLE)
SA = SAND (0.06 - 2 MM, GRITTY - UP TO LADYBUG SIZE)
FN = SILT/CLAY/MUCK, NOT GRITTY)
HP = HARDPAN (FIRM, CONSOLIDATED FINE SUBSTRATE)
WD = WOOD (ANY SIZE)
OT = OTHER (COMMENT)

III. FISH COVER/ OTHER

COVER IN-CHANNEL
0 = ABSENT (0%)
1 = SPARSE (<10%)
2 = MODERATE (10 - 40%)
3 = HEAVY (40 - 75%)
4 = VERY HEAVY (>75%)

	(X ONE) 0	1	2	3	4
FILEMENTOUS ALGAE	X				
MACROPHYTES		X			
WOODY DEBRIS > 0.3 m (BIG)	X				
WOODY DEBRIS < 0.3 m (SMALL)	X				
OVERHANGING VEG. ≤ 1 m OF SURFACE		X			
UNDERCUT BANKS			X		
BOULDERS	X				
ARTIFICAL STRUCTURES		X			

V. VISUAL RIPARIAN ESTIMATES

RIPARIAN VEGETATION COVER	LEFT BANK					RIGHT BANK				
	0 = ABSENT (0%); 1 = SPARSE (<10%); 2 = MODERATE (10-40%); 3 = HEAVY (40-75%); 4 = VERY HEAVY (>75%)					D = DECIDUOUS; C = CONIFEROUS; E = BROADLEAF EVG.; M = MIXED; N = NONE				
CANOPY (> 5 M HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)	X					X				
BIG TREES (TRUNK > 0.3 m DBH)	0 / X	1	2	3	4	0 / X	1	2	3	4
SMALL TREES (TRUNK < 0.3 m DBH)			X					~~X~~	X	
UNDERSTORY (0.5 TO 5 m HIGH)	D	C	E	M	N	D	C	E	M	N
VEGETATION TYPE (D, C, M, OR N)				X					X	
WOODY SHRUBS & SAPLINGS	0	1	2 / X	3	4	0	1	2 / X	3	4
NON-WOODY HERBS, GRASSES & FORBS			X						X	
GROUND COVER (< 0.5 m HIGH)	0	1	2	3	4	0	1	2	3	4
WOODY SHRUBS & SEEDLINGS			X					X		
NON-WOODY HERBS, GRASSES & FORBS					X					X
BARREN, BARE DIRT		X				X				

HUMAN INFLUENCE	0 = NOT PRESENT, C = PRESENT WITHIN 10 m, P = PRESENT > 10 m AWAY, B = PRESENT ON BANK							
	0	P	C	B	0	P	C	B
WALL/DIKE/REVETMENT/RIP RAP/DAM		X				X		
BUILDINGS	X					X		
PAVEMENT	X				X	~~X~~ ME		
ROAD/RAILROAD		X				X		
PIPES (INLET/OUTLET)		X				X		
LANDFILL/TRASH	X				X			
PARK/LAWN	X				X			
ROW CROPS	X				X			
PASTURE/RANGE/HAY FIELD	X				X			
LOGGING OPERATIONS	X				X			
MINING ACTIVITY	X				X			

II. BANK MEASUREMENTS

LOCATION	BANK ANGLE 0 - 360 °	UNDERCUT DISTANCE ~~(m)~~ ft
LEFT	52°	NA
RIGHT	55°	NA
WETTED WIDTH:		14.9
BAR WIDTH:		NA
BANKFULL WIDTH:		16.2
BANKFULL HEIGHT:		9.0"
INCISED HEIGHT:		9.0"

IV. CANOPY COVER MEASUREMENTS

DENSIOMETER (0 TO 17 MAX)

CENTER UP	11	CENTER RIGHT	16
CENTER LEFT	12	LEFT	17
CENTER DOWN	14	RIGHT	17

Reviewed by (initials): MK/ME

Appendix L
BMI Raw Data