

**Pacific Northwest
National Laboratory**

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U.S. Department of Energy

**Ecological Data in Support of the
Tank Closure and Waste Management
Environmental Impact Statement**

**Part 2: Results of Spring 2007 Field
Surveys**

M. R. Sackschewsky
J. L. Downs

May 2007



Prepared for the U.S. Department of Energy
under Contract DE-AC05-76RL01830

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under Contract DE-AC05-76RL01830

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Richland, Washington 99352

LIST OF ACRONYMS

BRMaP	Hanford Site Biological Resources Management Plan
BRMiS	Hanford Site Biological Resources Mitigation Strategy
CFR	Code of Federal Regulations
CWC	Central Waste Complex
CH-Mixed TRU	Contact-Handled Mixed Trans-Uranic
DOE	U.S. Department of Energy
DST	Double Shell Tank
ECAMP	Ecological Compliance Assessment Management Plan
ETF	Effluent Treatment Facility
FWS	U.S. Fish and Wildlife Service
HLW	High Level Waste
IDF	Integrated Disposal Facility
IHLW	Immobilized High Level Waste
TRU	Trans-Uranic
WDFW	Washington Department of Fish and Wildlife
WDNR	Washington Department of Natural Resources
WRF	Waste Receiver Facility
WRAP	Waste Receiving and Processing
WTF	Waste Treatment Facility
WTP	Waste Treatment Plant

INTRODUCTION

This review provides an evaluation of potential impacts of actions that have been proposed under various alternatives to support the closure of the high level waste tanks on the Hanford Site. This review provides a summary of data collected in the field during the spring of 2007 at all of the proposed project sites within 200 East and 200 West Areas, and at 600 Area sites not previously surveyed and described (Sackschewsky 2007). The primary purpose of this review is to provide biological data that can be incorporated into or used to support the Tank Closure and Waste Management Environmental Impact Statement.

Field surveys focused on animal and plant species considered Endangered, Threatened, Proposed, or Candidate by the U.S. Fish and Wildlife Service (maintained at 50 CFR 17.11 and 50 CFR 17.12), animal species listed as Endangered, Threatened, Candidate, or Sensitive by the Washington Department of Fish and Wildlife (WDFW 2007a), plant species listed as Endangered, Threatened, or Sensitive by the Washington State Department of Natural Resources (WDNR 2007), and habitats that are considered to be priority habitats by WDFW (WDFW 2007b). Although not considered to be species of special management concern, the presence of species classified by the State of Washington as Monitor or Watch List, is also noted.

Overall management of ecological resources on the Hanford Site is guided by the Hanford Site Biological Resources Management Plan (BRMaP) (DOE 2001). Guidance for the mitigation of adverse impacts to habitats of concern is provided in the Hanford Site Biological Resources Mitigation Strategy (BRMiS) (DOE 2003). Reviews of biological resources, such as those described below, are guided by the Hanford Site Ecological Compliance Assessment Management Plan (ECAMP)(DOE 2006).

SITE DESCRIPTIONS

Proposed Facilities in 200 West Area

Supplemental Treatment Facilities

Several supplemental treatment facilities may be placed in the southeast corner of 200W Area (Figure 1). Facilities that could be placed at this location include the Bulk Vitrification Facility, the Cast Stone Facility, and the Solid-Liquid Separations Facility. Most of this site is characterized as a mature big sagebrush (*Artemisia tridentata*) / Sandberg's bluegrass (*Poa sandbergii* [= *P. secunda*]) community, with approximately 25% - 30% sagebrush cover and roughly equal parts of Sandberg's bluegrass, cheatgrass (*Bromus tectorum*) and slender sixweeks (*Festuca octoflora*) as the dominant understory species. Other shrubs in the area include both gray and green rabbitbrush (*Chrysothamnus nauseosus* [= *Ericameria nauseosa*] and *C. viscidiflorus*, respectively), and spiny hopsage (*Grayia spinosa*). Large bunchgrasses, such as Indian ricegrass

(*Oryzopsis hymenoides* [= *Achnatherum hymenoides*]) and bottlebrush squirreltail (*Sitanion hystrix* [= *Elymus elymoides*]) and over 20 species of native forbs are present in the understory.

Special status plant species observed in the main habitat block included one individual of Piper's daisy (*Erigeron piperianus*), a Washington State-listed Sensitive species, and numerous stalked-pod milkvetch (*Astragalus sclerocarpus*), a Washington State Watch list species. At least five sage sparrows (*Amphispiza belli*) and two loggerhead shrikes (*Lanius ludovicianus*) were observed in the main habitat block. Both of these are Washington State Candidate species and the loggerhead shrike is also a Federal species of concern in the Columbia Basin. Several other migratory birds were observed.

The western portion of the potential development area is dominated by gray rabbitbrush, cheatgrass, and Sandberg's bluegrass; with approximately 15% total shrub cover. Overall floral diversity was lower than in the sagebrush portion of the site, and there were fewer animals present.

Development of this site for the construction of the supplemental treatment facilities would result in the loss of approximately 16 ha (40 ac) of mature sagebrush steppe. This also represents a habitat loss for sage sparrows, loggerhead shrikes, and other migratory birds. Field data for this proposed facility site are provided in Attachment 1.

WRF Facility Near the S-Tank Farm Complex.

The proposed site for a Waste Receiver Facility (WRF) facility in 200W Area is located in the southwest corner of 200W Area, between the S, SX, and SY tank farms and the former U-pond (Figure 1). The site has been disturbed in the past, and is currently sparsely vegetated with cheatgrass, Indian ricegrass, Russian thistle (*Salsola kali*), and a little crested wheatgrass (*Agropyron cristatum*). Overall species diversity is very low, and one horned lark was the only bird observed. Development of this site would not be expected to adversely affect any species of concern, nor is it expected to adversely affect wildlife habitat. Field data for this proposed facility site are provided in Attachment 2.

Contact-Handled Mixed TRU Waste Treatment Facility

A facility to treat Contact-Handled (CH) Mixed Trans-Uranic (TRU) waste may be constructed to the west of T-Tank Farm (Figure 1). Although this site does not appear to have been graded or directly disturbed in the recent past, if ever, it has become highly disturbed due to burning, and subsequent aeolian scouring and sand deposition from the adjacent burial grounds. The site is dominated by Sandberg's bluegrass, with about 5% cover provided by gray rabbitbrush. Russian thistle is common. Remnants of the former plant community are present such as big sagebrush, Indian ricegrass and stalked-pod milkvetch. Signs of small mammals and coyote tracks were observed, otherwise no animals were detected. The stalked-pod milkvetch is a Washington State Watch list species, but is relatively common throughout the 200 Areas plateau. Development of this site would not significantly affect the Hanford Site stalked-pod milkvetch population or

adversely affect any other species of concern, nor is it expected to adversely affect wildlife habitat. Field data for this proposed facility site are provided in Attachment 3.

T-Plant Expansion Site

An expansion of the T-Plant facilities in north-central 200W Area may entail expansion to the northwest of the existing T-Plant complex (Figure 1). Most of this area is already developed with existing buildings and storage areas, and most of the site consists of compacted gravel or asphalt with very little vegetation. If the expansion goes beyond the existing fence lines, it will result in the loss of a small amount of sagebrush habitat. The community is dominated by big sagebrush, with Sandberg's bluegrass, some cheatgrass, and very other vegetation in the understory. Development of this site could result in up to 1 ha (2.5 ac) of sagebrush habitat loss, but would not be expected to adversely affect any species of concern. Field data for this proposed facility site are provided in Attachment 4.

Contact Handled TRU Processing Facility and CWC Expansion Site

The area to the west of the existing Central Waste Complex (CWC) may be used for the development of a Contact-Handled TRU Waste Processing Facility and/or for expansion of the CWC (Figure 1). The site is dominated by planted grasses such as crested wheatgrass, big bluegrass (*Poa canbyi*) and planted Indian ricegrass and Sandberg's bluegrass. Most of this site burned in 2000 and was subsequently replanted, but a small portion near the northeast corner of the site retains the native vegetation. There is a row of hybrid willows that were installed as a windbreak that runs through the middle of this facility site. Development of this site would not be expected to adversely affect any species of concern, nor is it expected to adversely affect wildlife habitat. Field data for this proposed facility site are provided in Attachment 5.

WRAP Remote-Handled TRU Processing Facility

A facility to process remote-handled TRU waste may be constructed just east of the existing Waste Receiving and Processing (WRAP) facility in 200 W Area (Figure 1). Most of this area has been highly disturbed and has very little vegetation. However, there is an approximately 0.5 ha (1 ac) sagebrush-dominated community at the site. This habitat patch has approximately 10% sagebrush cover with an understory dominated by cheatgrass and Sandberg's bluegrass. Russian thistle is common at the site. Other than a white-crowned sparrow (*Zonotrichia leucophrys*) and some signs of small-mammal activity, very little sign of animal presence was noted. No plant or animal species of concern were observed. Development of this site could result in up to 0.5 ha (1 acre) of sagebrush habitat loss, but would not be expected to adversely affect any species of concern. Field data for this proposed facility site are provided in Attachment 6.

Integrated Disposal Facility – West Site

A site to the west of the existing 218-W-5 burial ground in 200 W Area has been proposed for the construction of a new Integrated Disposal Facility (Figure 1). The entire site was burned in 2000. The eastern portion of this site has been revegetated with crested wheatgrass, an introduced grass, and a non-native shrub, four-wing saltbush (*Atriplex canescens*). The saltbush provides approximately 1 to 3 % cover. A relatively diverse native flora has developed on the site. The western portion of the site was replanted with Indian ricegrass and Sandberg's bluegrass. Sagebrush was also replanted in the western part of the site, but contributes less than one percent cover to the site. A diverse native flora has also become re-established in the western portion of the site. The Washington State –Watch list species, stalked-pod milkvetch, was observed at the site, but otherwise no species of special concern were observed. Although the habitat is recovering shrub steppe, it presently does not qualify as mitigable habitat according to BRMaP (DOE 2001). Field data for this site are provided in Attachment 7.

200 West Underground Transfer Line

The underground transfer line that will connect all three of the 200W tank farm complexes will follow an existing street and will be completely contained within highly disturbed areas with either no vegetation or sparse weedy vegetation (Figure 1). No adverse impacts to species or habitats of concern are likely to result from the construction of this transfer line.

200 East Area Sites

Combined-Use Disposal Facility / IHLW Interim Storage Modules

This site is located in the south-central part of 200E Area, southwest of the PUREX facility (Figure 2). The portions of this site now occupied by the Integrated Disposal Facility (IDF), spoil piles, and support facilities are either devoid of vegetation or have been replanted with non-native species to stabilize the exposed surfaces. These areas have very little habitat value. However, large areas of mature shrub steppe habitat remain to the north and south of IDF, and there are smaller patches within the proposed development area to the east of IDF. The larger habitat blocks are dominated by big sagebrush, with up to 30 or 40% shrub cover, and the understory is dominated by Sandberg's bluegrass, cheatgrass, and slender sixweeks. Numerous native grasses and forbs were also observed. Non-shrub areas are dominated by Sandberg's bluegrass, cheatgrass, and crested wheatgrass.

Several sage sparrows were observed within this proposed development site, as well as several other species of migratory birds such as the lark sparrow (*Chondestes grammacus*), western meadow lark (*Sturnella neglecta*) and killdeer (*Charadrius vociferous*). Development of the undisturbed portions of this site would result in the loss

of approximately 20 ha (50 ac) of mature sagebrush steppe habitat. Field data for this site are provided in Attachment 8.

WRF and Contact-Handled-Mixed TRU Waste Treatment Facility

The WRF and Contact-Handled-mixed TRU Waste Treatment Facility proposed site is located on the east side of the B-Farm Complex in north-central 200E area (Figure 2). This site has been previously disturbed, and most of it has been replanted to crested wheatgrass. Some portions of the site are dominated by Sandberg's bluegrass and cheatgrass. Other than a white-crowned sparrow and some signs of small-mammal activity, very little sign of animal presence was noted. Development of this site is not expected to adversely affect any species or habitats of concern. Field data for this site are provided in Attachment 9.

WRF Site Near the A-Farm Complex

A proposed WRF site is located along the 200E fence line on the east side of the A-Farm complex (Figure 2). This site is highly disturbed, and the surface is almost entirely barren gravel. No adverse impacts to species or habitats of concern are expected to result from the development of this site.

IHLW Shipping/Transfer Facility and Interim Storage Modules

The proposed IHLW Shipping/Transfer facility/interim storage modules site is located in the northwest portion of 200E Area, just east of the 2704HV building (Figure 2). This site is highly disturbed, and most of the surface is barren gravel. A small portion of it is vegetated with gray rabbitbrush, cheatgrass, and Russian thistle. Although not observed during the field visit, the site may be used by killdeer, and other ground-nesting migratory birds which could nest among the small storage units, sheds, and stored materials in the area. With appropriate timing of site preparation for this area to avoid ground-nesting birds, it is expected that there would be no adverse impacts to species or habitats of concern. Field data for this site are provided in Attachment 10.

Canister Storage Building

The Canister Storage Building is located in the western portion of 200E area, southeast of 2704HV and due south of the IHLW shipping/transfer facility site (Figure 2). This site has been highly disturbed and there is essentially no vegetation on the compacted gravel surface. Killdeer may inhabit the open gravel, but development of this site is not expected to adversely affect any species or habitat of concern.

Replacement Effluent Treatment Facility

The proposed replacement effluent treatment facility (ETF) would be located in the same area as the existing ETF, just outside the northeast corner of the 200E Area (Figure 2). Most of this site has been highly disturbed and consists of compacted gravel with very

little vegetation. There is a small, approximately 1 ha (2.5 ac) stand of vegetation on the western edge of the site dominated by Sandberg's bluegrass and bulbous bluegrass (*Poa bulbosa*) with some gray rabbitbrush and several additional native grasses and forbs. Development of this site for a new ETF would not result in adverse impacts to species or habitats of concern. Field data for this site are provided in Attachment 11.

200 East Underground Transfer Line

The proposed transfer line running from the B-Tank Farm complex to C-Tank Farm in 200E area (Figure 2) traverses several different types of habitat including gray rabbitbrush /Sandberg's bluegrass, big sagebrush, and Sandberg's bluegrass/cheatgrass. Installation of the transfer line along the proposed route would result in the loss of approximately 1.3 ha (3 ac) of sagebrush steppe habitat and approximately 2 ha (5 ac) of rabbitbrush dominated habitat. One individual of Piper's daisy (a Washington State Sensitive species) was observed on the edge of the sagebrush habitat. Black-tailed jackrabbits (*Lepus californicus*), a Washington State Candidate species were observed near the pipeline location. One long-billed curlew nest (a Washington State Monitor species) was observed in the area, and other migratory birds, including meadowlarks, white-crowned sparrows, and the savannah sparrow (*Passerculus sandwichensis*) were observed in the area. Development of this site could have minor adverse impacts to State-listed species such as the Piper's daisy and black-tailed jackrabbit. Field data for this site are provided in Attachment 12.

600 Area Site

Preprocessing Facility / HLW Debris Storage Facilities / RPPDF

A proposed site for the preprocessing facility, High Level Waste (HLW) debris storage facilities, and the RPPDF is located in the 200 Areas Corridor west of Route 4N and north of Route 3 (Figure 2). The eastern half of this approximately 242 ha (598 ac) site was surveyed in 2003 and was described previously (Sackschewsky 2007). No significant changes to land-use or habitats in this area were noted during the spring of 2007. The western half of the site was surveyed on May 3, 2007.

The southeast corner of this site includes part of a borrow pit (Pit 30), portions of which are active and have very little vegetation, and other portions which have been inactive for many years and have developed an early successional community dominated by Sandberg's bluegrass and gray rabbitbrush. Most of the remainder of the RPPDF site is a mature sagebrush steppe community. Sagebrush cover is variable, but ranges from 10 to approximately 30 percent,. The undertory is dominated by Sandbergs bluegrass, cheatgrass, and needle-and-thread grass (*Stipa comata* [= *Hesperostipa comata*]). Numerous native forbs and other grass species were observed.

Bird species observed included sage sparrow and loggerhead shrike (both are Washington State Candidate Species) as well as western meadowlark, white-crowned sparrow, horned lark (*Eremophila alpestris*). Black-tailed jackrabbits (another Washington State

Candidate species) were also observed in the sagebrush habitat areas. No threatened, endangered, or sensitive plant species were observed, but the crouching milkvetch (*Astragalus succumbens*), a Washington State Watch-list species, was present.

Development of the entire area proposed for the preprocessing facility, High Level Waste debris storage facilities, and the RPPDF would result in the loss of 205 ha (506 ac) of mature sagebrush steppe, and would represent a significant loss of habitat for sage sparrows, loggerhead shrikes, and black-tailed jackrabbits. Field data for this site are provided in Attachment 13.

Areas Previously Reviewed

Waste Treatment Plant Vicinity

The area surrounding the Waste Treatment Plant (WTP), including the locations of the replacement WTP, IHLW Interim Storage Modules, Supplemental Treatment Facilities, and new double shell tanks (DST) site (Figure 2) were surveyed and reviewed in 2003, and these reviews are available in Sackschewsky (2007). The site was evaluated on May 3, 2007 for any significant changes to the habitats or land-use patterns since the previous reviews. The only notable changes were a new access road at the very south end of the WTP Replacement site that connects to a new gate into the WTP Site, and a pair of metal storage buildings and associated graveled parking areas adjacent to the 200E fence line just south of the proposed new DST site. Neither of these changes resulted in a significant change in the types or amount of habitat within the proposed project areas.

Development of all of the proposed facilities in the area surrounding WTP would result in the loss of approximately 185 ha (457 ac) mature sagebrush steppe habitat. Watch list plant species, including stalked-pod and crouching milkvetch, were observed during the earlier surveys. Development of this area would also represent a significant loss of habitat for several State Candidate wildlife species including sage sparrow, loggerhead shrike, and black-tailed jackrabbit.

Soil Borrow Site (Area C)

The proposed soil borrow site located on south of SR 240 (Area C) (Figure 3) was surveyed at various times between 2003 and 2006. The results of these surveys were described by Sackschewsky (2007). The area was inspected on May 11, 2007 to determine if there had been any significant changes to the types and distribution of habitats or land use patterns since the previous surveys. The only change noted was the installation of a paved access road that connects Beloit Avenue at the Rattlesnake Barricade to the proposed initial borrow pit development site.

All of Area C burned in 2000, and there are very few shrubs present. The majority (approximately 782 ha [1933 ac]) of the site is characterized as a Sandberg's bluegrass / cheatgrass community. There is also a relatively large (107 ha [265 ac]), high quality needle-and-thread grass / Indian ricegrass community in the northeast part of the site, and

a smaller (14 ha [34 ac]) needle-and-thread grass community in the western end of the site.

All of Area C provides extensive habitat for ground nesting birds such as the western meadowlark and long-billed curlew. Piper's daisy is known to occur in relatively high numbers to the south of the site, and at least one individual has been found along the new access road. The stalked-pod milkvetch was also observed in the area.

Most of Area C can be developed without significant adverse impacts to species or habitats of concern. However, the large needle-and-thread grass / Indian ricegrass community represents an unusual, and relatively pristine community type on the Hanford Site. Impacts to this area should be avoided or minimized to the extent possible.

SUMMARY

The areas evaluated in this review encompass approximately 1634 ha (4,038 ac), including the 928 ha (2293 ac) in Area C. A total of 432 ha (1,067 ac) of mature sagebrush steppe would be disturbed if all of the project sites were fully developed. Under current DOE guidance (DOE 2001, DOE 2003), a disturbance of mature sagebrush steppe of this magnitude would require compensatory mitigation to replace the habitat. Therefore, a mitigation action plan should be developed once there is a final decision on which alternatives will be used.

None of the proposed projects and associated development is expected to result in adverse impacts to any species listed as threatened or endangered by the US Fish and Wildlife Service or the State of Washington. Several species listed as Candidate or Sensitive species by the State of Washington, including the sage sparrow, loggerhead shrike, black-tailed jackrabbit, and Piper's daisy were observed, primarily in mature sagebrush steppe communities. Construction of the proposed facilities at the proposed sites would not likely jeopardize the existence of these species on the Hanford Site, but these actions could result in significant localized habitat loss for these species. However, mitigation for the sagebrush steppe habitat would also function as mitigation for these species.

There is always the potential that species listed by the federal or state governments as threatened, endangered, or otherwise of concern could colonize an area subsequent to a biological survey, especially if there are native habitats present. Therefore, prior to actual development of any of these facilities, additional field surveys will be required to determine whether protected species will be adversely impacted.

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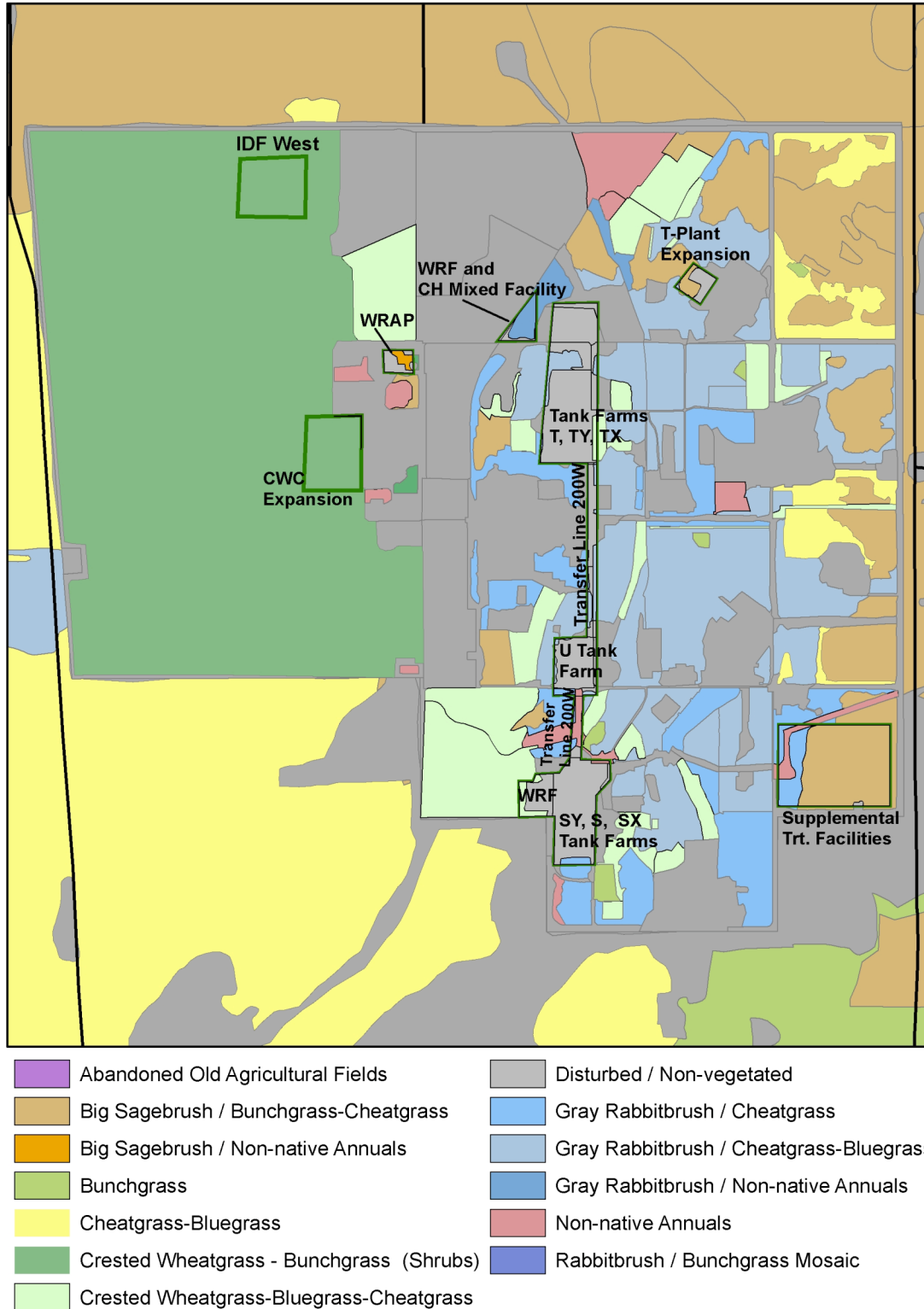


Figure 1. Location of Proposed Project Sites and Vegetation Communities in the 200W Area.

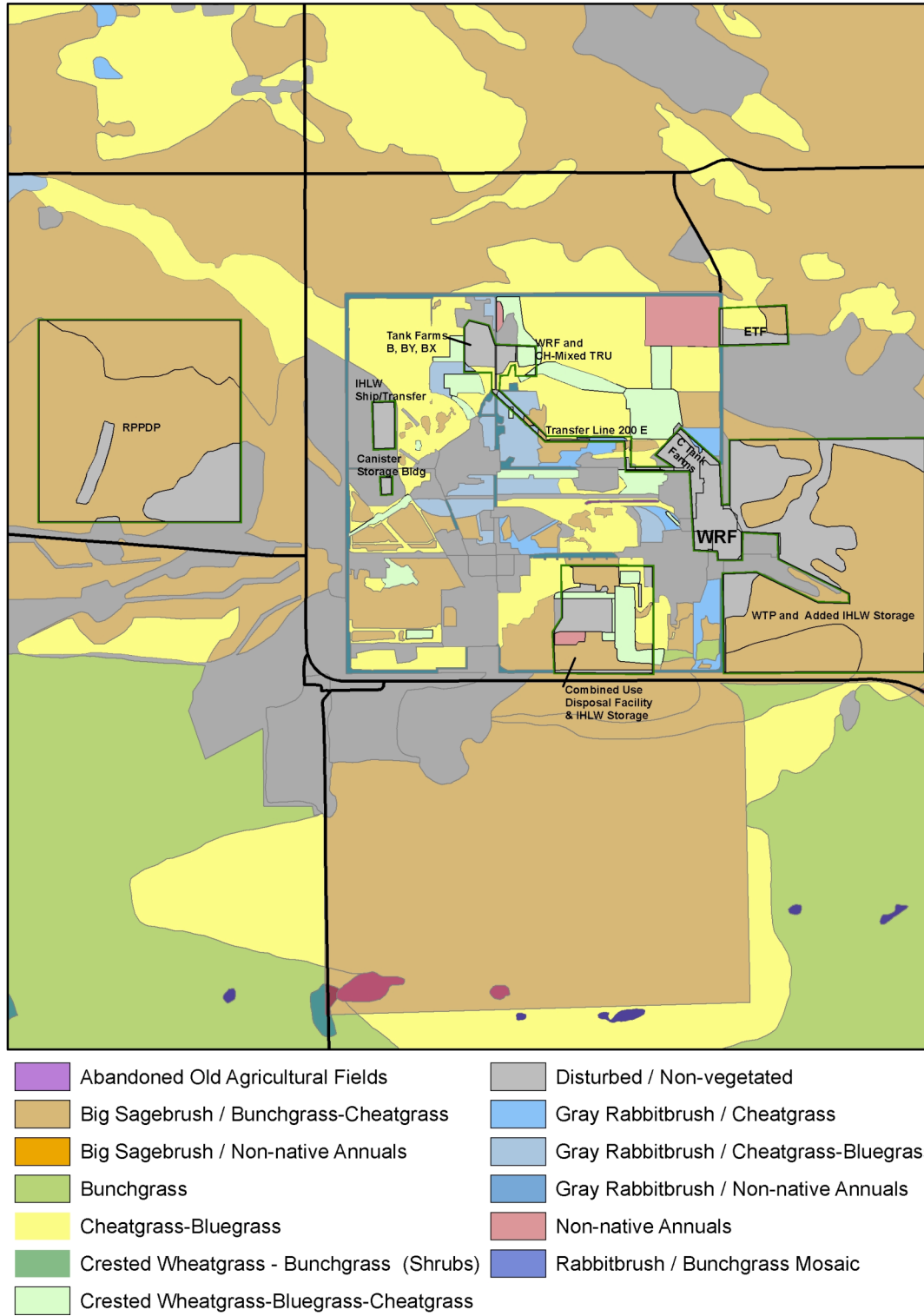


Figure 2. Location of Proposed Project Sites and Vegetation Communities in and near the 200E Area.

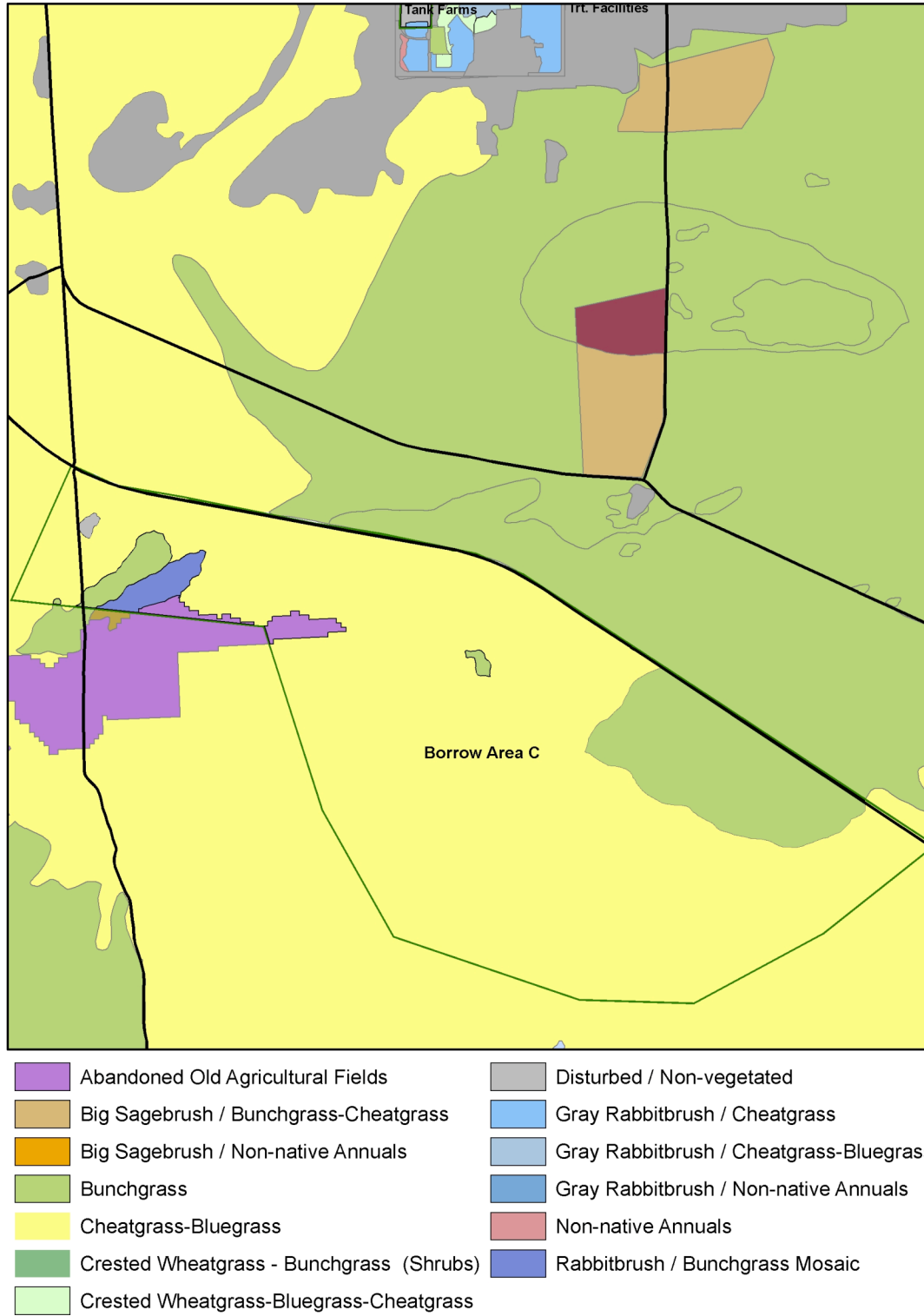


Figure 3. Plant Communities in the Proposed Soil Borrow Site, Area C.

ATTACHMENT 1

FIELD DATA FOR THE SUPPLEMENTAL TREATMENT FACILITY SITE IN 200W
AREA

ECAP Database Query Results for W-002

Observer: *Chamness, Mickie*Date *05/02/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
big sagebrush	Artemisia tridentata	30	
cheatgrass	Bromus tectorum	10	
slender sixweeks	Festuca octoflora	10	
Sandberg's bluegrass	Poa sandbergii	10	
yarrow	Achillea millefolium		
devil's lettuce	Amsinckia tessellata		
stalked-pod milkvetch	Astragalus sclerocarpus		
Carey's balsamroot	Balsamorhiza careyana		
sagebrush mariposa lily	Calochortus macrocarpus		
gray rabbitbrush	Chrysothamnus nauseosus		
green rabbitbrush	Chrysothamnus viscidiflorus		
bastard toadflax	Comandra umbellata		
slender hawksbeard	Crepis atrabarba		
matted cryptantha	Cryptantha circumscissa		
turpentine springparsley	Cymopterus terebinthinus		
western tansymustard	Descurainia pinnata		
flixweed	Descurainia sophia		
threadleaf fleabane	Erigeron filifolius		
shy gilia	Gilia sinuata		
spiny hopsage	Grayia spinosa		
jagged chickweed	Holosteum umbellatum		
prickly lettuce	Lactuca serriola		
white-daisy tidytips	Layia glandulosa		
hoary aster	Machaeranthera canescens		
pale evening primrose	Oenothera pallida		
Indian ricegrass	Oryzopsis hymenoides		
threadleaf scorpionweed	Phacelia linearis		
longleaf phlox	Phlox longifolia		
bottlebrush grass	Sitanion hystrix		
needle-and-thread grass	Stipa comata		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	Tracks
northern pocket gopher	Thomomys talpoides	Present	Mounds new
unknown/unidentified small mammal		Present	Lots of holes
black-tailed jackrabbit	Lepus californicus	Present	5

Herp

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Present	Lizard, several
northern sagebrush lizard looking	Sceloporus graciosus	Present	Light colored ruffer-

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western meadowlark	Sturnella neglecta	1	Several
sage sparrow	Amphispiza belli	2	Saw 1, heard another
loggerhead shrike fence across road, also in polygon	Lanius ludovicianus	1	Keeps going to E of
northern harrier	Circus cyaneus	1	Hawk hunting
Unidentified/Unlisted bird	Unidentified/Unlisted bird	1	Dark hawk hunting
white-crowned sparrow	Zonotrichia leucophrys	10	
American robin	Turdus migratorius	1	

Observer: ***Downs, Janelle***Date ***05/02/2007******Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Piper's daisy 120 m west of blue shed	Erigeron piperianus		Single plant 50m from rd
slender sixweeks	Festuca octoflora	5	
Indian ricegrass	Oryzopsis hymenoides	5	
big sagebrush	Artemisia tridentata	25	
cheatgrass	Bromus tectorum	10	
Sandberg's bluegrass	Poa sandbergii	10	
fiddleneck	Amsinckia lycopsoides	1	
Carey's balsamroot	Balsamorhiza careyana	1	
gray rabbitbrush	Chrysothamnus nauseosus	1	
green rabbitbrush	Chrysothamnus viscidiflorus	1	
bastard toadflax	Comandra umbellata	1	
matted cryptantha	Cryptantha circumscissa	1	
western tansymustard	Descurainia pinnata	1	
hoary aster	Machaeranthera canescens	1	

longleaf phlox	Phlox longifolia	1
bottlebrush grass	Sitanion hystrix	1
yarrow	Achillea millefolium	+
annual mountain dandelion	Agoseris heterophylla	+
stalked-pod milkvetch	Astragalus sclerocarpus	+
crouching milkvetch	Astragalus succumbens	+
sagebrush mariposa lily	Calochortus macrocarpus	+
slender hawkbeard	Crepis atrabarba	+
winged cryptantha	Cryptantha pterocarya	+
turpentine springparsley	Cymopterus terebithinus	+
threadleaf fleabane	Erigeron filifolius	+
jagged chickweed	Holosteum umbellatum	+
white-daisy tidytips	Layia glandulosa	+
pink microsteris	Microsteris gracilis	+
Jim Hill's tumbledustard	Sisymbrium altissimum	+
needle-and-thread grass	Stipa comata	+

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	
northern pocket gopher	Thomomys talpoides	Present	
unknown/unidentified small mammal		Common	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
sage sparrow	Amphispiza belli	3	One id , two singing
northern harrier	Circus cyaneus	1	Hunting
loggerhead shrike	Lanius ludovicianus	2	1 hovering/hunting over sage
white-crowned sparrow	Zonotrichia leucophrys	8	
western meadowlark	Sturnella neglecta	2	
mourning dove	Zenaida macroura	2	
American robin	Turdus migratorius	1	

Observer: *Simmons, Mary Ann*Date *05/02/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
bottlebrush grass	Sitanion hystrix		
yarrow	Achillea millefolium		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
Carey's balsamroot	Balsamorhiza careyana		

cheatgrass	Bromus tectorum
sagebrush mariposa lily	Calochortus macrocarpus
hoary falseyarrow	Chaenactis douglasii
gray rabbitbrush	Chrysothamnus nauseosus
bastard toadflax	Comandra umbellata
slender hawksbeard	Crepis atrabarba
matted cryptantha	Cryptantha circumscissa
winged cryptantha	Cryptantha pterocarya
turpentine springparsley	Cymopterus terebithinus
western tansymustard	Descurainia pinnata
flixweed	Descurainia sophia
threadleaf fleabane	Erigeron filifolius
slender sixweeks	Festuca octoflora
yellow bell	Fritillaria pudica
spiny hopsage	Grayia spinosa
prickly lettuce	Lactuca serriola
hoary aster	Machaeranthera canescens
pale evening primrose	Oenothera pallida
Indian ricegrass	Oryzopsis hymenoides
longleaf phlox	Phlox longifolia
Sandberg's bluegrass	Poa sandbergii
Russian thistle	Salsola kali
needle-and-thread grass	Stipa comata

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Present	Lizard
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Present	Lizard

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
sage sparrow	Amphispiza belli	1	
American robin	Turdus migratorius	1	
white-crowned sparrow	Zonotrichia leucophrys	1	

ECAP Database Query Results for W-002a

Observer: *Hand, Kris*Date *05/03/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Sandberg's bluegrass	<i>Poa sandbergii</i>	5	
cheatgrass	<i>Bromus tectorum</i>	25	
big sagebrush	<i>Artemisia tridentata</i>	20	
Indian ricegrass	<i>Oryzopsis hymenoides</i>	+	
yarrow	<i>Achillea millefolium</i>		
crested wheatgrass	<i>Agropyron cristatum</i>		
stalked-pod milkvetch	<i>Astragalus sclerocarpus</i>		
Carey's balsamroot	<i>Balsamorhiza careyana</i>		
green rabbitbrush	<i>Chrysothamnus viscidiflorus</i>		
bastard toadflax	<i>Comandra umbellata</i>		
matted cryptantha	<i>Cryptantha circumscissa</i>		
turpentine springparsley	<i>Cymopterus terebithinus</i>		
western tansymustard	<i>Descurainia pinnata</i>		
slender sixweeks	<i>Festuca octoflora</i>		
jagged chickweed	<i>Holosteum umbellatum</i>		
hoary aster	<i>Machaeranthera canescens</i>		
pale evening primrose	<i>Oenothera pallida</i>		
Russian thistle	<i>Salsola kali</i>		
Jim Hill's tumbledustard	<i>Sisymbrium altissimum</i>		
needle-and-thread grass	<i>Stipa comata</i>		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Present	Holes

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	<i>Uta stansburiana</i>	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
sage sparrow	<i>Amphispiza belli</i>	1	Sing to S in W-002
loggerhead shrike boundary	<i>Lanius ludovicianus</i>	1	Perch powerline N
white-crowned sparrow	<i>Zonotrichia leucophrys</i>	2	

ECAP Database Query Results for W-003

Observer: *Chamness, Mickie*Date *05/02/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
devil's lettuce	Amsinckia tessellata		Flower not exerted
cheatgrass	Bromus tectorum	15	
gray rabbitbrush	Chrysothamnus nauseosus	15	
Sandberg's bluegrass	Poa sandbergii	15	
flixweed	Descurainia sophia		
slender sixweeks	Festuca octoflora		
jagged chickweed	Holosteum umbellatum		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
bulbous bluegrass	Poa bulbosa		
Russian thistle	Salsola kali		
Jim Hill's tumbled mustard	Sisymbrium altissimum		
needle-and-thread grass	Stipa comata		
Yellow salsify	Tragopogon dubius		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Present	Holes

Observer: *Simmons, Mary Ann*Date *05/02/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted plant	Unidentified/Unlisted plant		other lactuca
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
bur ragweed	Ambrosia acanthicarpa		
devil's lettuce	Amsinckia tessellata		
big sagebrush	Artemisia tridentata		
stalked-pod milkvetch	Astragalus sclerocarpus		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
slender sixweeks	Festuca octoflora		
jagged chickweed	Holosteum umbellatum		
prickly lettuce	Lactuca serriola		

hoary aster	Machaeranthera canescens
Indian ricegrass	Oryzopsis hymenoides
longleaf phlox	Phlox longifolia
Sandberg's bluegrass	Poa sandbergii
Russian thistle	Salsola kali
Jim Hill's tumbled mustard	Sisymbrium altissimum
needle-and-thread grass	Stipa comata

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
black-tailed jackrabbit	Lepus californicus	Present	Tracks

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Present	Lizard sp

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	1	

ECAP Database Query Results for W-003aa

Observer: *Downs, Janelle*Date *05/02/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
fiddleneck	Amsinckia lycopsoides	1	West side of poly
cheatgrass	Bromus tectorum	50	
Sandberg's bluegrass	Poa sandbergii	5	
Russian thistle	Salsola kali	5	
gray rabbitbrush	Chrysothamnus nauseosus	10	
needle-and-thread grass	Stipa comata	10	
crested wheatgrass	Agropyron cristatum	1	
slender sixweeks	Festuca octoflora	1	
hoary aster	Machaeranthera canescens	1	
bulbous bluegrass	Poa bulbosa	1	
Jim Hill's tumbledustard	Sisymbrium altissimum	1	
bur ragweed	Ambrosia acanthicarpa	+	
big sagebrush	Artemisia tridentata	+	
stalked-pod milkvetch	Astragalus sclerocarpus	+	
prickly lettuce	Lactuca serriola	+	
Indian ricegrass	Oryzopsis hymenoides	+	

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	3	

ECAP Database Query Results for W-107a

Observer: *Chamness, Mickie*Date *05/02/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	70	
prickly lettuce	Lactuca serriola	5	
gray rabbitbrush	Chrysothamnus nauseosus	+	
crested wheatgrass	Agropyron cristatum		
devil's lettuce	Amsinckia tessellata		
flixweed	Descurainia sophia		
slender sixweeks	Festuca octoflora		
jagged chickweed	Holosteum umbellatum		
Indian ricegrass	Oryzopsis hymenoides		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		
needle-and-thread grass	Stipa comata		
Yellow salsify	Tragopogon dubius		

Observer: *Downs, Janelle*Date *05/02/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
crested wheatgrass	Agropyron cristatum	5	
cheatgrass	Bromus tectorum	5	
Russian thistle	Salsola kali	1	
needle-and-thread grass	Stipa comata	+	

ATTACHMENT 2

FIELD DATA FOR THE WRF FACILITY WEST OF THE S-FARMS COMPLEX IN
200W AREA

ECAP Database Query Results for W-102b

Observer: *Hand, Kris*Date *05/03/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	10	
Indian ricegrass	Oryzopsis hymenoides	1	
Russian thistle	Salsola kali	1	
crested wheatgrass	Agropyron cristatum	+	
flixweed	Descurainia sophia		
slender sixweeks	Festuca octoflora		
alkali bluegrass	Poa juncifolia		
Sandberg's bluegrass	Poa sandbergii		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
horned lark	Eremophila alpestris	1	

ATTACHEMNT 3

FIELD DATA FOR THE CH-MIXED TRU WASTE TREATMENT FACILITY WEST
OF T-FARM IN 200W AREA

ECAP Database Query Results for W-051a

Observer: *Chamness, Mickie*Date *05/01/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
big sagebrush	Artemisia tridentata		
bur ragweed	Ambrosia acanthicarpa		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	Tracks
unknown/unidentified small mammal		Present	Holes

Observer: *Downs, Janelle*Date *05/01/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
gray rabbitbrush	Chrysothamnus nauseosus	5	
Russian thistle	Salsola kali	5	
Sandberg's bluegrass	Poa sandbergii	10	
big sagebrush	Artemisia tridentata	1	
cheatgrass	Bromus tectorum	1	
jagged chickweed	Holosteum umbellatum	1	
Jim Hill's tumbled mustard	Sisymbrium altissimum	1	
stalked-pod milkvetch	Astragalus sclerocarpus	+	
hoary aster	Machaeranthera canescens	+	
Indian ricegrass	Oryzopsis hymenoides	+	

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal	small mammal	Present	

ATTACHMENT 4

FIELD DATA FOR THE T-PLANT EXPANSION SITE IN 200W AREA

ECAP Database Query Results for 2007-600-018

Observer: *Sackschewsky, Mike* Date *05/11/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
big sagebrush	Artemisia tridentata		T-plant area/
cheatgrass	Bromus tectorum		T-plant area/
gray rabbitbrush	Chrysothamnus nauseosus		T-plant area/
hoary aster	Machaeranthera canescens		T-plant area/
Sandberg's bluegrass	Poa sandbergii		T-plant area/
Russian thistle	Salsola kali		T-plant area/
Jim Hill's tumbled mustard	Sisymbrium altissimum		T-plant area/

ATTACHMENT 5

FIELD DATA FOR THE WRAP TRU CONTACT HANDLED PROCESSING
FACILITY AND CENTRAL WASTE COMPLEX EXPANSION SITE IN 200W
AREA.

ECAP Database Query Results for 2007-200-022 (CWC Expansion)

Observer: *Sackschewsky, Mike*Date *05/03/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted plant	Unidentified/Unlisted plant		Atriplex canescens
annual mountain dandelion	Agoseris heterophylla		Remove veg west of CWC/
crested wheatgrass	Agropyron cristatum		Remove veg west of CWC/
fiddleneck	Amsinckia lycopsoides		Remove veg west of CWC/
big sagebrush	Artemisia tridentata		Remove veg west of CWC/
Carey's balsamroot	Balsamorhiza careyana		Remove veg west of CWC/
cheatgrass	Bromus tectorum		Remove veg west of CWC/
gray rabbitbrush	Chrysothamnus nauseosus		Remove veg west of CWC/
green rabbitbrush	Chrysothamnus viscidiflorus		Remove veg west of CWC/
slender hawksbeard	Crepis atrabarba		Remove veg west of CWC/
winged cryptantha	Cryptantha pterocarya		Remove veg west of CWC/
turpentine springparsley	Cymopterus terebithinus		Remove veg west of CWC/
western tansymustard	Descurainia pinnata		Remove veg west of CWC/
giant wildrye	Elymus cinereus		Remove veg west of CWC/
spiny hopsage	Grayia spinosa		Remove veg west of CWC/
hoary aster	Machaeranthera canescens		Remove veg west of CWC/
big bluegrass	Poa canbyi		Remove veg west of CWC/
Sandberg's bluegrass	Poa sandbergii		Remove veg west of CWC/
Sandberg's bluegrass	Poa sandbergii		Remove veg west of CWC/
Russian thistle	Salsola kali		Remove veg west of CWC/
Jim Hill's tumbled mustard	Sisymbrium altissimum		Remove veg west of CWC/

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Present	Remove veg west of CWC/

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	3	Remove veg west of CWC/

ATTACHMENT 6

FIELD DATA FOR THE WRAP REMOTE HANDLED TRU WASTE PROCESSING
FACILITY SITE IN 200W AREA.

ECAP Database Query Results for W-080c

Observer: *Downs, Janelle*Date *05/01/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	5	
big sagebrush	Artemisia tridentata	10	
Russian thistle	Salsola kali	10	
gray rabbitbrush	Chrysothamnus nauseosus	1	
Sandberg's bluegrass	Poa sandbergii	1	
bastard toadflax	Comandra umbellata	+	
western tansymustard	Descurainia pinnata	+	
prickly lettuce	Lactuca serriola	+	
hoary aster	Machaeranthera canescens	+	
Indian ricegrass	Oryzopsis hymenoides	+	
Jim Hill's tumbled mustard	Sisymbrium altissimum	+	
Yellow salsify	Tragopogon dubius	+	

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Common	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	1	

ATTACHMENT 7

FIELD DATA FOR THE INTEGRATED DISPOSAL FACILITY (IDF-WEST) IN
200W AREA.

ECAP Database Query Results for 2007-600-018

Observer: *Downs, Janelle*Date *05/03/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted plant	Unidentified/Unlisted plant		Atriplex canescens
hoary falseyarrow	Chaenactis douglasii	1	IDF West
annual mountain dandelion	Agoseris heterophylla		IDF West
crested wheatgrass	Agropyron cristatum		IDF West
bur ragweed	Ambrosia acanthicarpa		IDF West
fiddleneck	Amsinckia lycopsoides		IDF West
big sagebrush	Artemisia tridentata		IDF West
buckwheat milkvetch	Astragalus caricinus		IDF West
stalked-pod milkvetch	Astragalus sclerocarpus		IDF West
Carey's balsamroot	Balsamorhiza careyana		IDF West
cheatgrass	Bromus tectorum		IDF West
green rabbitbrush	Chrysothamnus viscidiflorus		IDF West
bastard toadflax	Comandra umbellata		IDF West
matted cryptantha	Cryptantha circumscissa		IDF West
winged cryptantha	Cryptantha pterocarya		IDF West
turpentine springparsley	Cymopterus terebithinus		IDF West
western tansymustard	Descurainia pinnata		IDF West
threadleaf fleabane	Erigeron filifolius		IDF West
slender sixweeks	Festuca octoflora		IDF West
hoary aster	Machaeranthera canescens		IDF West
Indian ricegrass	Oryzopsis hymenoides		IDF West
longleaf phlox	Phlox longifolia		IDF West
Sandberg's bluegrass	Poa sandbergii		IDF West
Jim Hill's tumblemustard	Sisymbrium altissimum		IDF West
Yellow salsify	Tragopogon dubius		IDF West

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
badger	Taxidea taxus	Present	IDF West

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western meadowlark	Sturnella neglecta	2	IDF West
white-crowned sparrow	Zonotrichia leucophrys	2	IDF West
savannah sparrow	Passerculus sandwichensis	2	IDF West

Observer: *Sackschewsky, Mike*Date *04/24/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted plant	Unidentified/Unlisted plant		Atriplex canescens
cheatgrass	Bromus tectorum	40	IDF west/
crested wheatgrass	Agropyron cristatum	15	IDF west/
Sandberg's bluegrass	Poa sandbergii	10	IDF west/
yarrow	Achillea millefolium		IDF west/
bluebunch wheatgrass	Agropyron spicatum		IDF west/
ticklegrass	Agrostis scabra		IDF west/
bur ragweed	Ambrosia acanthicarpa		IDF west/
fiddleneck	Amsinckia lycopsoides		IDF west/
big sagebrush	Artemisia tridentata		IDF west/
buckwheat milkvetch	Astragalus caricinus		IDF west/
Carey's balsamroot	Balsamorhiza careyana		IDF west/
Douglas' clusterlily	Brodiaea douglasii		IDF west/
hoary falseyarrow	Chaenactis douglasii		IDF west/
green rabbitbrush	Chrysothamnus viscidiflorus		IDF west/
bastard toadflax	Comandra umbellata		IDF west/
slender hawksbeard	Crepis atrabarba		IDF west/
matted cryptantha	Cryptantha circumscissa		IDF west/
winged cryptantha	Cryptantha pterocarya		IDF west/
turpentine springparsley	Cymopterus terebithinus		IDF west/
western tansymustard	Descurainia pinnata		IDF west/
threadleaf fleabane	Erigeron filifolius		IDF west/
slender sixweeks	Festuca octoflora		IDF west/
low lupine	Lupinus pusillus		IDF west/
hoary aster	Machaeranthera canescens		IDF west/
Indian ricegrass	Oryzopsis hymenoides		IDF west/
sand beardtongue	Penstemon acuminatus		IDF west/
threadleaf scorpionweed	Phacelia linearis		IDF west/
longleaf phlox	Phlox longifolia		IDF west/
Jim Hill's tumbledustard	Sisymbrium altissimum		IDF west/
bottlebrush grass	Sitanion hystrix		IDF west/
showy Townsend-daisy	Townsendia florifer		IDF west/
Yellow salsify	Tragopogon dubius		IDF west/

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	IDF west /

ATTACHMENT 8

FIELD DATA FOR THE COMBINED-USE DISPOSAL FACILITY / IHLW INTERIM
STORAGE MODULES IN 200E AREA

ECAP Database Query Results for E-001

Observer: *Chamness, Mickie*Date *05/14/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
bluebunch wheatgrass	Agropyron spicatum		seeded in
yelllow bell	Fritillaria pudica		seed pod
Unidentified/Unlisted plant	Unidentified/Unlisted plant		Good crust N face hill
Unidentified/Unlisted plant	Unidentified/Unlisted plant		Good crust in patches
big sagebrush	Artemisia tridentata	30	
cheatgrass	Bromus tectorum	30	
slender sixweeks	Festuca octoflora	10	
Sandberg's bluegrass	Poa sandbergii	10	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
bur ragweed	Ambrosia acanthicarpa		
fiddleneck	Amsinckia lycopsoides		
buckwheat milkvetch	Astragalus caricinus		
Carey's balsamroot	Balsamorhiza careyana		
Douglas' clusterlily	Brodiaea douglasii		
sagebrush mariposa lily	Calochortus macrocarpus		
hoary falseyarrow	Chaenactis douglasii		
gray rabbitbrush	Chrysothamnus nauseosus		
green rabbitbrush	Chrysothamnus viscidiflorus		
bastard toadflax	Comandra umbellata		
slender hawkbeard	Crepis atrabarba		
matted cryptantha	Cryptantha circumscissa		
winged cryptantha	Cryptantha pterocarya		
turpentine springparsley	Cymopterus terebithinus		
upland larkspur	Delphinium nuttallianum		
western tansymustard	Descurainia pinnata		
flixweed	Descurainia sophia		
broom buckwheat	Eriogonum vimineum		
slender sixweeks	Festuca octoflora		
jagged chickweed	Holosteum umbellatum		
hoary aster	Machaeranthera canescens		
whitestem stickleaf	Mentzelia albicaulis		
pink microsteris	Microsteris gracilis		
Indian ricegrass	Oryzopsis hymenoides		
threadleaf scorpionweed	Phacelia linearis		
longleaf phlox	Phlox longifolia		
bitterbrush	Purshia tridentata		

Russian thistle	Salsola kali
Jim Hill's tumbled mustard	Sisymbrium altissimum
bottlebrush grass	Sitanion hystrix
needle-and-thread grass	Stipa comata
Yellow salsify	Tragopogon dubius
pink microsteris	Microsteris gracilis

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	Tracks and poop
black-tailed jackrabbit	Lepus californicus	Present	Tracks
unknown/unidentified small mammal		Abundant	Tracks
Unidentified/Unlisted mammal		Present	possible badger hole
northern pocket gopher	Thomomys talpoides	Present	Mound
Unidentified/Unlisted mammal mouse		Present	larger burrow than
unknown/unidentified small mammal		Abundant	Holes and tracks

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Present	lizards too fast to see
northern sagebrush lizard	Sceloporus graciosus	Present	
side-blotched lizard	Uta stansburiana	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
lark sparrow	Chondestes grammacus	1	Singing
horned lark	Eremophila alpestris	1	Singing
Unidentified/Unlisted bird	Unidentified/Unlisted bird	1	prob wesp
sage sparrow	Amphispiza belli	1	Perched singing
sage sparrow	Amphispiza belli	1	Perched singing
western meadowlark	Sturnella neglecta	2	Or more
European starling	Sturnus vulgaris		Nesting in siren tower
lark sparrow	Chondestes grammacus	1	Flying and singing
killdeer	Charadrius vociferus	2	Flew away, no distracting
black-billed magpie	Pica pica	1	Dead and 1 live
Unidentified/Unlisted bird crown	Unidentified/Unlisted bird	1	Clear breast chestnut
sage sparrow	Amphispiza belli	1	

Observer: *Freeman-Cadoret, Natalie*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
annual mountain dandelion	Agoseris heterophylla		
bur ragweed	Ambrosia acanthicarpa		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
Carey's balsamroot	Balsamorhiza careyana		
Douglas' clusterlily	Brodiaea douglasii		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
green rabbitbrush	Chrysothamnus viscidiflorus		
bastard toadflax	Comandra umbellata		
matted cryptantha	Cryptantha circumscissa		
winged cryptantha	Cryptantha pterocarya		
turpentine springparsley	Cymopterus terebithinus		
western tansymustard	Descurainia pinnata		
slender sixweeks	Festuca octoflora		
slender sixweeks	Festuca octoflora		
shy gilia	Gilia sinuata		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
whitestem stickleaf	Mentzelia albicaulis		
pink microsteris	Microsteris gracilis		
purplemat	Nama densum		
Indian ricegrass	Oryzopsis hymenoides		
threadleaf scorpionweed	Phacelia linearis		
longleaf phlox	Phlox longifolia		
pine bluegrass	Poa scabrella		
bitterbrush	Purshia tridentata		
Russian thistle	Salsola kali		
bottlebrush grass	Sitanion hystrix		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	
black-tailed jackrabbit	Lepus californicus	Present	
unknown/unidentified small mammal		Present	

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
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white-crowned sparrow Zonotrichia leucophrys 5

Observer: *Hand, Kris*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
small sixweeks	Festuca macrostachys		
yarrow	Achillea millefolium		
bur ragweed	Ambrosia acanthicarpa		
devil's lettuce	Amsinckia tessellata		
big sagebrush	Artemisia tridentata		
Carey's balsamroot	Balsamorhiza careyana		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
green rabbitbrush	Chrysothamnus viscidiflorus		
bastard toadflax	Comandra umbellata		
slender hawksbeard	Crepis atrabarba		
matted cryptantha	Cryptantha circumscissa		
winged cryptantha	Cryptantha pterocarya		
turpentine springparsley	Cymopterus terebithinus		
western tansymustard	Descurainia pinnata		
shy gilia	Gilia sinuata		
hoary aster	Machaeranthera canescens		
pink microsteris	Microsteris gracilis		
Indian ricegrass	Oryzopsis hymenoides		
longleaf phlox	Phlox longifolia		
Indian wheat	Plantago patigonica		
Sandberg's bluegrass	Poa sandbergii		
bitterbrush	Purshia tridentata		
bottlebrush grass	Sitanion hystrix		
needle-and-thread grass	Stipa comata		
Yellow salsify	Tragopogon dubius		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	Tracks, diggings
black-tailed jackrabbit	Lepus californicus	Present	Poop, tracks, 1 critter
unknown/unidentified small mammal		Present	Holes

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
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Unidentified/Unlisted bird	Unidentified/Unlisted bird	strk brst,solid redish head,pr
horned lark	Eremophila alpestris	several
sage sparrow	Amphispiza belli	2 sing
lark sparrow	Chondestes grammacus	1 sing

Observer: *Simmons, Mary Ann*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
annual mountain dandelion	Agoseris heterophylla		
fiddleneck	Amsinckia lycopsoides		
devil's lettuce	Amsinckia tessellata		
big sagebrush	Artemisia tridentata		
Carey's balsamroot	Balsamorhiza careyana		
Douglas' clusterlily	Brodiaea douglasii		
cheatgrass	Bromus tectorum		
green rabbitbrush	Chrysothamnus viscidiflorus		
bastard toadflax	Comandra umbellata		
slender hawksbeard	Crepis atrabarba		
matted cryptantha	Cryptantha circumscissa		
winged cryptantha	Cryptantha pterocarya		
turpentine springparsley	Cymopterus terebithinus		
flixweed	Descurainia sophia		
slender sixweeks	Festuca octoflora		
shy gilia	Gilia sinuata		
hoary aster	Machaeranthera canescens		
threadleaf scorpionweed	Phacelia linearis		
longleaf phlox	Phlox longifolia		
Sandberg's bluegrass	Poa sandbergii		
bitterbrush	Purshia tridentata		
Russian thistle	Salsola kali		
Jim Hill's tumblemustard	Sisymbrium altissimum		
bottlebrush grass	Sitanion hystrix		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
black-tailed jackrabbit	Lepus californicus	Present	Baby

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Present	lizard

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
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lark sparrow	<i>Chondestes grammacus</i>	4
savannah sparrow	<i>Passerculus sandwichensis</i>	2
white-crowned sparrow	<i>Zonotrichia leucophrys</i>	

ECAP Database Query Results for E-001b

Observer: *Hand, Kris*Date *05/09/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	1	Mostly gravel
Russian thistle	Salsola kali		
Jim Hill's tumblemustard	Sisymbrium altissimum		

ECAP Database Query Results for E-001c

Observer: *Freeman-Cadore, Natalie*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
big sagebrush	Artemisia tridentata		Seedlings
cheatgrass	Bromus tectorum	5	
Russian thistle	Salsola kali	5	
crested wheatgrass	Agropyron cristatum	15	
flixweed	Descurainia sophia		
slender sixweeks	Festuca octoflora		
prickly lettuce	Lactuca serriola		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
black-tailed jackrabbit	Lepus californicus	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western kingbird	Tyrannus verticalis	1	

ECAP Database Query Results for E-001d

Observer: *Hand, Kris*Date *05/09/2007**Plant*Common NameLatin NameAbundanceComments

Russian thistle

Salsola kali

mostly bare,gravel

ECAP Database Query Results for E-001e

Observer: *Freeman-Cadoret, Natalie*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
big sagebrush	Artemisia tridentata		Seedlings
cheatgrass	Bromus tectorum	5	
Russian thistle	Salsola kali	5	
flixweed	Descurainia sophia	+	
crested wheatgrass	Agropyron cristatum		
slender sixweeks	Festuca octoflora		
hoary aster	Machaeranthera canescens		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Observer: *Hand, Kris*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	5	
crested wheatgrass	Agropyron cristatum	15	
bur ragweed	Ambrosia acanthicarpa		
flixweed	Descurainia sophia		
prickly lettuce	Lactuca serriola		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cliff swallow	Hirundo pyrrhonota	1	flyover

ECAP Database Query Results for E-001g

Observer: *Chamness, Mickie* Date *05/09/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
slender sixweeks	Festuca octoflora	5	
crested wheatgrass	Agropyron cristatum	40	
cheatgrass	Bromus tectorum	20	
big sagebrush	Artemisia tridentata	+	
Sandberg's bluegrass	Poa sandbergii	+	
yarrow	Achillea millefolium		
fiddleneck	Amsinckia lycopsoides		
matted cryptantha	Cryptantha circumscissa		
winged cryptantha	Cryptantha pterocarya		
spring whitlowgrass	Draba verna		
hoary aster	Machaeranthera canescens		
pink microsteris	Microsteris gracilis		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Present	Holes

Observer: *Freeman-Cadoret, Natalie* Date *05/09/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
crested wheatgrass	Agropyron cristatum		
bur ragweed	Ambrosia acanthicarpa		
fiddleneck	Amsinckia lycopsoides		
cheatgrass	Bromus tectorum		

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western meadowlark	Sturnella neglecta	1	

Observer: *Hand, Kris* Date *05/09/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
small sixweeks	Festuca macrostachys		
crested wheatgrass	Agropyron cristatum	5	
cheatgrass	Bromus tectorum	40	
devil's lettuce	Amsinckia tessellata		

big sagebrush	Artemisia tridentata
matted cryptantha	Cryptantha circumscissa
winged cryptantha	Cryptantha pterocarya
flixweed	Descurainia sophia
jagged chickweed	Holosteum umbellatum
hoary aster	Machaeranthera canescens
pink microsteris	Microsteris gracilis
Sandberg's bluegrass	Poa sandbergii
Jim Hill's tumbledustard	Sisymbrium altissimum

Observer: *Simmons, Mary Ann*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
crested wheatgrass	Agropyron cristatum		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
cheatgrass	Bromus tectorum		
flixweed	Descurainia sophia		
whitestem stickleaf	Mentzelia albicaulis		
Jim Hill's tumbledustard	Sisymbrium altissimum		
needle-and-thread grass	Stipa comata		

ECAP Database Query Results for E-001i

Observer: *Chamness, Mickie*Date *05/09/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
big sagebrush	Artemisia tridentata		
cheatgrass	Bromus tectorum		
matted cryptantha	Cryptantha circumscissa		
flixweed	Descurainia sophia		
slender sixweeks	Festuca octoflora		
prickly lettuce	Lactuca serriola		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Russian thistle	Salsola kali		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
black-tailed jackrabbit	Lepus californicus	Present	Running

Observer: *Hand, Kris*Date *05/09/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
small sixweeks	Festuca macrostachys		
big sagebrush	Artemisia tridentata	25	
cheatgrass	Bromus tectorum	25	
Sandberg's bluegrass	Poa sandbergii	1	
yarrow	Achillea millefolium		
devil's lettuce	Amsinckia tessellata		
matted cryptantha	Cryptantha circumscissa		
turpentine springparsley	Cymopterus terebithinus		
western tansymustard	Descurainia pinnata		
longleaf phlox	Phlox longifolia		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western kingbird	Tyrannus verticalis	2	Perch t-post near crib

ECAP Database Query Results for E-001j

Observer: *Hand, Kris*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
big sagebrush	Artemisia tridentata	20	
Sandberg's bluegrass	Poa sandbergii	15	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
bur ragweed	Ambrosia acanthicarpa		
devil's lettuce	Amsinckia tessellata		
Douglas' clusterlily	Brodiaea douglasii		
cheatgrass	Bromus tectorum		
cheatgrass	Bromus tectorum		
green rabbitbrush	Chrysothamnus viscidiflorus		
bastard toadflax	Comandra umbellata		
slender hawksbeard	Crepis atrabarba		
matted cryptantha	Cryptantha circumscissa		
turpentine springparsley	Cymopterus terebithinus		
slender sixweeks	Festuca octoflora		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
longleaf phlox	Phlox longifolia		
Indian wheat	Plantago patigonica		
Jim Hill's tumbledustard	Sisymbrium altissimum		
bottlebrush grass	Sitanion hystrix		

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted bird	Unidentified/Unlisted bird		redish brwn head tail, pale
eye stripe			
horned lark	Eremophila alpestris		

ECAP Database Query Results for E-002

Observer: *Chamness, Mickie*Date *05/14/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted plant	Unidentified/Unlisted plant		introd? grass
Unidentified/Unlisted plant	Unidentified/Unlisted plant		Agsp w/awns, seeded
Sandberg's bluegrass	<i>Poa sandbergii</i>	5	
cheatgrass	<i>Bromus tectorum</i>	25	
crested wheatgrass	<i>Agropyron cristatum</i>	15	
big sagebrush	<i>Artemisia tridentata</i>	+	
yarrow	<i>Achillea millefolium</i>		
fiddleneck	<i>Amsinckia lycopsoides</i>		
devil's lettuce	<i>Amsinckia tessellata</i>		
gray rabbitbrush	<i>Chrysothamnus nauseosus</i>		
green rabbitbrush	<i>Chrysothamnus viscidiflorus</i>		
matted cryptantha	<i>Cryptantha circumscissa</i>		
winged cryptantha	<i>Cryptantha pterocarya</i>		
western tansymustard	<i>Descurainia pinnata</i>		
slender sixweeks	<i>Festuca octoflora</i>		
prickly lettuce	<i>Lactuca serriola</i>		
hoary aster	<i>Machaeranthera canescens</i>		
Indian ricegrass	<i>Oryzopsis hymenoides</i>		
Russian thistle	<i>Salsola kali</i>		
Jim Hill's tumblemustard	<i>Sisymbrium altissimum</i>		
bottlebrush grass	<i>Sitanion hystrix</i>		
Yellow salsify	<i>Tragopogon dubius</i>		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	<i>Canis latrans</i>	Present	Tracks
unknown/unidentified small mammal		Present	Holes

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Present	lizard

Observer: *Freeman-Cadoret, Natalie*Date *05/09/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
crested wheatgrass	Agropyron cristatum		
big sagebrush	Artemisia tridentata		
cheatgrass	Bromus tectorum		
flixweed	Descurainia sophia		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		

ECAP Database Query Results for E-002a

Observer: *Chamness, Mickie*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted plant	Unidentified/Unlisted plant		Agsp w/awns
big sagebrush	Artemisia tridentata	5	
Sandberg's bluegrass	Poa sandbergii	5	
cheatgrass	Bromus tectorum	15	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
fiddleneck	Amsinckia lycopsoides		
gray rabbitbrush	Chrysothamnus nauseosus		
green rabbitbrush	Chrysothamnus viscidiflorus		
turpentine springparsley	Cymopterus terebithinus		
western tansymustard	Descurainia pinnata		
hoary aster	Machaeranthera canescens		
longleaf phlox	Phlox longifolia		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	tracks
northern pocket gopher	Thomomys talpoides	Present	Mound
unknown/unidentified small mammal		Present	Holes

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted bird	Unidentified/Unlisted bird	1	Streaked throat clear breast
yellow bill			

Observer: *Freeman-Cadoret, Natalie*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
bluebunch wheatgrass	Agropyron spicatum		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
green rabbitbrush	Chrysothamnus viscidiflorus		
matted cryptantha	Cryptantha circumscissa		

turpentine springparsley	Cymopterus terebithinus
spring whitlowgrass	Draba verna
threadleaf fleabane	Erigeron filifolius
Piper's daisy	Erigeron piperianus
shaggy fleabane	Erigeron pumilis
storksbill	Erodium cicutarium
slender sixweeks	Festuca octoflora
jagged chickweed	Holosteum umbellatum
hoary aster	Machaeranthera canescens
whitestem stickleaf	Mentzelia albicaulis
Indian ricegrass	Oryzopsis hymenoides
Sandberg's bluegrass	Poa sandbergii
Russian thistle	Salsola kali
Jim Hill's tumbledustard	Sisymbrium altissimum
needle-and-thread grass	Stipa comata
Yellow salsify	Tragopogon dubius

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western kingbird	Tyrannus verticalis	1	

Observer: ***Hand, Kris***

Date ***05/09/2007***

Plant

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
big sagebrush	Artemisia tridentata		good size patch SW
small sixweeks	Festuca macrostachys		
gray rabbitbrush	Chrysothamnus nauseosus	5	
cheatgrass	Bromus tectorum	10	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
devil's lettuce	Amsinckia tessellata		
Douglas' clusterlily	Brodiaea douglasii		
bastard toadflax	Comandra umbellata		
matted cryptantha	Cryptantha circumscissa		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
black-tailed jackrabbit	Lepus californicus	Present	2 critters

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
horned lark	Eremophila alpestris		

Observer: ***Simmons, Mary Ann***Date ***05/09/2007******Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
crouching milkvetch	Astragalus succumbens		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
turpentine springparsley	Cymopterus terebithinus		
threadleaf fleabane	Erigeron filifolius		
Piper's daisy	Erigeron piperianus		
shaggy fleabane	Erigeron pumilis		
storksbill	Erodium cicutarium		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Jim Hill's tumbled mustard	Sisymbrium altissimum		
needle-and-thread grass	Stipa comata		

ECAP Database Query Results for E-002b

Observer: *Freeman-Cadore, Natalie*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	10	
Russian thistle	Salsola kali	1	
slender sixweeks	Festuca octoflora		
Sandberg's bluegrass	Poa sandbergii		
needle-and-thread grass	Stipa comata		

ECAP Database Query Results for E-002c

Observer: *Hand, Kris*Date *05/09/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Russian thistle Salsola kali	mostly bare		

ECAP Database Query Results for E-002d

Observer: *Freeman-Cadoret, Natalie*Date *05/09/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
big sagebrush	Artemisia tridentata		Seedling
cheatgrass	Bromus tectorum	10	
Russian thistle	Salsola kali	1	
flixweed	Descurainia sophia		
flixweed	Descurainia sophia		
slender sixweeks	Festuca octoflora		
prickly lettuce	Lactuca serriola		
pink microsteris	Microsteris gracilis		
Sandberg's bluegrass	Poa sandbergii		

ECAP Database Query Results for E-015

Observer: *Chamness, Mickie*Date *05/09/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
bur ragweed	Ambrosia acanthicarpa		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
Carey's balsamroot	Balsamorhiza careyana		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
matted cryptantha	Cryptantha circumscissa		
turpentine springparsley	Cymopterus terebithinus		
western tansymustard	Descurainia pinnata		
slender sixweeks	Festuca octoflora		
spiny hopsage	Grayia spinosa		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
longleaf phlox	Phlox longifolia		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	Tracks
black-tailed jackrabbit	Lepus californicus	Present	Running
northern pocket gopher	Thomomys talpoides	Present	Mound
Unidentified/Unlisted mammal		Present	Large burrow
unknown/unidentified small mammal		Abundant	Holes and tracks

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Present	Lizard
side-blotched lizard	Uta stansburiana	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
savannah sparrow	Passerculus sandwichensis	1	Yellow by eye
western meadowlark	Sturnella neglecta	1	Singing
sage sparrow	Amphispiza belli	1	Perching

white-crowned sparrow Zonotrichia leucophrys 1

Observer: *Freeman-Cadoret, Natalie* Date *05/09/2007*

Plant

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
bur ragweed	Ambrosia acanthicarpa		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
Carey's balsamroot	Balsamorhiza careyana		
cheatgrass	Bromus tectorum		
flixweed	Descurainia sophia		
tall willowherb	Epilobium paniculatum		
spiny hopsage	Grayia spinosa		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
longleaf phlox	Phlox longifolia		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	
mule deer	Odocoileus hemionus	Present	
unknown/unidentified small mammal		Common	

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	

Observer: *Hand, Kris* Date *05/09/2007*

Plant

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	20	
big sagebrush	Artemisia tridentata	15	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
devil's lettuce	Amsinckia tessellata		
buckwheat milkvetch	Astragalus caricinus		
Carey's balsamroot	Balsamorhiza careyana		
matted cryptantha	Cryptantha circumscissa		
winged cryptantha	Cryptantha pterocarya		

turpentine springparsley	Cymopteris terebithinus
flixweed	Descurainia sophia
jagged chickweed	Holosteum umbellatum
hoary aster	Machaeranthera canescens
threadleaf scorpionweed	Phacelia linearis
longleaf phlox	Phlox longifolia
Sandberg's bluegrass	Poa sandbergii
Russian thistle	Salsola kali
Jim Hill's tumbled mustard	Sisymbrium altissimum
Yellow salsify	Tragopogon dubius

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
black-tailed jackrabbit	Lepus californicus	Present	Trails
coyote	Canis latrans	Present	Recent den NW crnr in
swale			
badger	Taxidea taxus	Present	Old burrow, diggings
unknown/unidentified small mammal		Present	Holes

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
horned lark	Eremophila alpestris		Sing
western meadowlark	Sturnella neglecta		Sing
cliff swallow	Hirundo pyrrhonota	2	flyover
northern harrier	Circus cyaneus	2	hunting W end

Observer: ***Simmons, Mary Ann***Date ***05/09/2007******Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
crested wheatgrass	Agropyron cristatum		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
Carey's balsamroot	Balsamorhiza careyana		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
turpentine springparsley	Cymopteris terebithinus		
western tansymustard	Descurainia pinnata		
flixweed	Descurainia sophia		
spiny hopsage	Grayia spinosa		
hoary aster	Machaeranthera canescens		
longleaf phlox	Phlox longifolia		

bulbous bluegrass	Poa bulbosa
Russian thistle	Salsola kali
Jim Hill's tumbled mustard	Sisymbrium altissimum

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted mammal		Present	burrow 8 in diameter
black-tailed jackrabbit	Lepus californicus	Present	

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Present	lizard

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
northern harrier	Circus cyaneus	2	
white-crowned sparrow	Zonotrichia leucophrys	1	
sage sparrow	Amphispiza belli		
northern harrier	Circus cyaneus		

ATTACHMENT 9

FIELD DATA FOR THE WRF AND CONTACT-HANDLED-MIXED TRU WASTE
TREATMENT FACILITY IN 200E AREA

ECAP Database Query Results for E-025c

Observer: *Chamness, Mickie*Date *04/30/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
annual mountain dandelion	Agoseris heterophylla		Fuzzy Agoseris appearance
cheatgrass	Bromus tectorum	5	
crested wheatgrass	Agropyron cristatum	40	
Sandberg's bluegrass	Poa sandbergii	25	
western tansymustard	Descurainia pinnata		
spring whitlowgrass	Draba verna		
slender sixweeks	Festuca octoflora		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
bulbous bluegrass	Poa bulbosa		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		
needle-and-thread grass	Stipa comata		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Present	Holes and tracks

Observer: *Downs, Janelle*Date *04/18/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	60	
devil's lettuce	Amsinckia tessellata	1	
gray rabbitbrush	Chrysothamnus nauseosus	1	
Indian ricegrass	Oryzopsis hymenoides	+	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
spring whitlowgrass	Draba verna		
hoary aster	Machaeranthera canescens		
bulbous bluegrass	Poa bulbosa		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Common	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted bird cheatgrass	Unidentified/Unlisted bird	1	Sparrow like on ground in

Observer: *Simmons, Mary Ann*

Date *04/30/2007*

Plant

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
crested wheatgrass	Agropyron cristatum		
devil's lettuce	Amsinckia tessellata		
cheatgrass	Bromus tectorum		
slender sixweeks	Festuca octoflora		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
bulbous bluegrass	Poa bulbosa		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	2	

ATTACHMENT 10

FIELD DATA FOR THE IHLW SHIPPING/TRANSFER FACILITY AND INTERIM
STORAGE MODULES IN 200E AREA

Observer: *Sackschewsky, Mike*Date *05/11/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum		IHLW shipping transfer/
gray rabbitbrush	Chrysothamnus nauseosus		IHLW shipping transfer/
Russian thistle	Salsola kali		IHLW shipping transfer/

ATTACHMENT 11

FIELD DATA FOR THE REPLACEMENT EFFLUENT TREATMENT FACILITY IN
200E AREA

Observer: *Sackschewsky, Mike*Date *04/24/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	50	ETF 200E/
bulbous bluegrass	Poa bulbosa	5	new ETF 200E/
Sandberg's bluegrass	Poa sandbergii	10	new ETF 200E/
fiddleneck	Amsinckia lycopsoides		new ETF 200E/
big sagebrush	Artemisia tridentata		new ETF 200E/
Douglas' clusterlily	Brodiaea douglasii		new ETF 200E/
gray rabbitbrush	Chrysothamnus nauseosus		new ETF 200E/
prickly lettuce	Lactuca serriola		new ETF 200E/
Indian ricegrass	Oryzopsis hymenoides		new ETF 200E/
Russian thistle	Salsola kali		new ETF 200E/
Jim Hill's tumbledustard	Sisymbrium altissimum		new ETF 200E/
sand dropseed	Sporobolus cryptandrus		new ETF 200E/
needle-and-thread grass	Stipa comata		new ETF 200E/

ATTACHMENT 12

FIELD DATA FOR THE 200 EAST UNDERGROUND TRANSFER LINE IN 200E
AREA

ECAP Database Query Results for E-022

Observer: *Chamness, Mickie*Date *04/18/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
gray rabbitbrush	Chrysothamnus nauseosus	30	
Sandberg's bluegrass	Poa sandbergii	15-30	patchy
cheatgrass	Bromus tectorum	15-25	patchy
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
devil's lettuce	Amsinckia tessellata		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
Carey's balsamorhiza	Balsamorhiza careyana		
sagebrush mariposa lily	Calochortus macrocarpus		
turpentine springparsley	Cymopterus terebithinus		
western tansymustard	Descurainia pinnata		
spring whitlowgrass	Draba verna		
storksbill	Erodium cicutarium		
slender sixweeks	Festuca octoflora		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
longleaf phlox	Phlox longifolia		
bulbous bluegrass	Poa bulbosa		
Russian thistle	Salsola kali		
sand dropseed	Sporobolus cryptandrus		
needle-and-thread grass	Stipa comata		
Yellow salsify	Tragopogon dubius		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	Old tracks
unknown/unidentified small mammal		Present	Holes all over

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western meadowlark	Sturnella neglecta	1	
white-crowned sparrow	Zonotrichia leucophrys	1	

Observer: *Downs, Janelle*Date *04/18/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	5	
gray rabbitbrush	Chrysothamnus nauseosus	25	
Sandberg's bluegrass	Poa sandbergii	25	
sand dropseed	Sporobolus cryptandrus	10	
big sagebrush	Artemisia tridentata	1	
needle-and-thread grass	Stipa comata	1	
yarrow	Achillea millefolium		
devil's lettuce	Amsinckia tessellata		
buckwheat milkvetch	Astragalus caricinus		
slender sixweeks	Festuca octoflora		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
bulbous bluegrass	Poa bulbosa		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	
black-tailed jackrabbit	Lepus californicus	Present	
northern pocket gopher	Thomomys talpoides	Present	
unknown/unidentified small mammal		Common	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	2	
white-crowned sparrow	Zonotrichia leucophrys	2	
white-crowned sparrow	Zonotrichia leucophrys	2	
western meadowlark	Sturnella neglecta	1	
white-crowned sparrow	Zonotrichia leucophrys	1	
white-crowned sparrow	Zonotrichia leucophrys	1	

Observer: *Freeman-Cadoret, Natalie*Date *04/18/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
annual mountain dandelion	Agoseris heterophylla		
bluebunch wheatgrass	Agropyron spicatum		
fiddleneck	Amsinckia lycopsoides		

big sagebrush	Artemisia tridentata
buckwheat milkvetch	Astragalus caricinus
Carey's balsamroot	Balsamorhiza careyana
cheatgrass	Bromus tectorum
blue mustard	Chorispora tenella
gray rabbitbrush	Chrysothamnus nauseosus
green rabbitbrush	Chrysothamnus viscidiflorus
turpentine springparsley	Cymopterus terebithinus
spring whitlowgrass	Draba verna
slender sixweeks	Festuca octoflora
jagged chickweed	Holosteum umbellatum
prickly lettuce	Lactuca serriola
hoary aster	Machaeranthera canescens
longleaf phlox	Phlox longifolia
bulbous bluegrass	Poa bulbosa
Sandberg's bluegrass	Poa sandbergii
bur buttercup	Ranunculus testiculatus
Russian thistle	Salsola kali
Jim Hill's tumbled mustard	Sisymbrium altissimum
sand dropseed	Sporobolus cryptandrus
Yellow salsify	Tragopogon dubius

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		small mammal	Present

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	3	

ECAP Database Query Results for E-014

Observer: *Chamness, Mickie*Date *04/18/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
cheatgrass	Bromus tectorum	60	
big sagebrush	Artemisia tridentata	20	
Carey's balsamroot	Balsamorhiza careyana		
gray rabbitbrush	Chrysothamnus nauseosus		
spiny hopsage	Grayia spinosa		
hoary aster	Machaeranthera canescens		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Yellow salsify	Tragopogon dubius		

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western meadowlark	Sturnella neglecta	2	
white-crowned sparrow	Zonotrichia leucophrys	1	

Observer: *Downs, Janelle*Date *04/18/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western tansymustard	Descurainia pinnata		
big sagebrush	Artemisia tridentata	30	
cheatgrass	Bromus tectorum	20	
Sandberg's bluegrass	Poa sandbergii	1	
spiny hopsage	Grayia spinosa	+	
Carey's balsamroot	Balsamorhiza careyana		
slender sixweeks	Festuca octoflora		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
black-tailed jackrabbit	Lepus californicus	Present	
unknown/unidentified small mammal		Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western meadowlark	Sturnella neglecta	1	

Observer: *Freeman-Cadoret, Natalie*Date *04/18/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		

fiddleneck	Amsinckia lycopoides
big sagebrush	Artemisia tridentata
Carey's balsamroot	Balsamorhiza careyana
cheatgrass	Bromus tectorum
western tansymustard	Descurainia pinnata
spiny hopsage	Grayia spinosa
hoary aster	Machaeranthera canescens
Sandberg's bluegrass	Poa sandbergii
Yellow salsify	Tragopogon dubius

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	
unknown/unidentified small mammal		Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
western meadowlark	Sturnella neglecta	2	
white-crowned sparrow	Zonotrichia leucophrys	1	

Observer: ***Freeman-Cadoret, Natalie***Date ***05/07/2007******Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Piper's daisy of polygon	Erigeron piperianus		574073e 136613n. On edge
Sandberg's bluegrass	Poa sandbergii	30	
big sagebrush	Artemisia tridentata	25	
cheatgrass	Bromus tectorum	20	
yarrow	Achillea millefolium		
bluebunch wheatgrass	Agropyron spicatum		
fiddleneck	Amsinckia lycopoides		
buckwheat milkvetch	Astragalus caricinus		
Carey's balsamroot	Balsamorhiza careyana		
bastard toadflax	Comandra umbellata		
slender hawkbeard	Crepis atrabarba		
flixweed	Descurainia sophia		
threadleaf fleabane	Erigeron filifolius		
shaggy fleabane	Erigeron pumilis		
spiny hopsage	Grayia spinosa		
jagged chickweed	Holosteum umbellatum		
prickly lettuce	Lactuca serriola		
longleaf phlox	Phlox longifolia		
Russian thistle	Salsola kali		
Jim Hill's tumbledustard	Sisymbrium altissimum		

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
bottlebrush grass	Sitanion hystrix		
needle-and-thread grass	Stipa comata		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
coyote	Canis latrans	Present	
unknown/unidentified small mammal		Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
long-billed curlew feathers, along pipeline	Numenius americanus	0	2 predated curlew eggs with
white-crowned sparrow	Zonotrichia leucophrys	5	
western meadowlark	Sturnella neglecta	1	
American robin	Turdus migratorius	1	

Observer: ***Simmons, Mary Ann***Date ***05/07/2007******Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
Carey's balsamroot	Balsamorhiza careyana		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
bastard toadflax	Comandra umbellata		
turpentine springparsley	Cymopterus terebithinus		
flixweed	Descurainia sophia		
threadleaf fleabane	Erigeron filifolius		
shaggy fleabane	Erigeron pumilis		
spiny hopsage	Grayia spinosa		
jagged chickweed	Holosteum umbellatum		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
longleaf phlox	Phlox longifolia		
bulbous bluegrass	Poa bulbosa		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Jim Hill's tumblemustard	Sisymbrium altissimum		
bottlebrush grass	Sitanion hystrix		

needle-and-thread grass Stipa comata
 Yellow salsify Tragopogon dubius

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted mammal		Present	Large burrow

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	5	
western meadowlark	Sturnella neglecta	1	
American robin	Turdus migratorius	1	

ECAP Database Query Results for E-009a

Observer: *Freeman-Cadoret, Natalie*Date *05/07/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
low lupine	Lupinus pusillus		
gray rabbitbrush	Chrysothamnus nauseosus	5	
Sandberg's bluegrass	Poa sandbergii	5	
cheatgrass	Bromus tectorum	15	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
bur ragweed	Ambrosia acanthicarpa		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
stalked-pod milkvetch	Astragalus sclerocarpus		
green rabbitbrush	Chrysothamnus viscidiflorus		
turpentine springparsley	Cymopterus terebithinus		
western tansymustard	Descurainia pinnata		
spring whitlowgrass	Draba verna		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
sand beardtongue	Penstemon acuminatus		
bur buttercup	Ranunculus testiculatus		
Russian thistle	Salsola kali		
Jim Hill's tumblemustard	Sisymbrium altissimum		
sand dropseed	Sporobolus cryptandrus		
Yellow salsify	Tragopogon dubius		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		small mammal	Present

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	4	

Observer: *Simmons, Mary Ann*Date *05/07/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
bur ragweed	Ambrosia acanthicarpa		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
stalked-pod milkvetch	Astragalus sclerocarpus		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
turpentine springparsley	Cymopterus terebithinus		
flixweed	Descurainia sophia		
prickly lettuce	Lactuca serriola		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
longleaf phlox	Phlox longifolia		
Sandberg's bluegrass	Poa sandbergii		
Russian thistle	Salsola kali		
Jim Hill's tumbled mustard	Sisymbrium altissimum		
Yellow salsify	Tragopogon dubius		

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
white-crowned sparrow	Zonotrichia leucophrys	3	
savannah sparrow	Passerculus sandwichensis	1	

ECAP Database Query Results for E-013

Observer: *Freeman-Cadore, Natalie*Date *05/07/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Sandberg's bluegrass	Poa sandbergii	30	
big sagebrush	Artemisia tridentata	15	
cheatgrass	Bromus tectorum	10	
turpentine springparsley	Cymopterus terebithinus	1	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
fiddleneck	Amsinckia lycopsoides		
buckwheat milkvetch	Astragalus caricinus		
stalked-pod milkvetch	Astragalus sclerocarpus		
green rabbitbrush	Chrysothamnus viscidiflorus		
spiny hopsage	Grayia spinosa		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
sand beardtongue	Penstemon acuminatus		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		Present	

Observer: *Simmons, Mary Ann*Date *05/07/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
stalked-pod milkvetch	Astragalus sclerocarpus		
Carey's balsamroot	Balsamorhiza careyana		
cheatgrass	Bromus tectorum		
gray rabbitbrush	Chrysothamnus nauseosus		
green rabbitbrush	Chrysothamnus viscidiflorus		
bastard toadflax	Comandra umbellata		
turpentine springparsley	Cymopterus terebithinus		

Plant

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
slender sixweeks	Festuca octoflora		
hoary aster	Machaeranthera canescens		
Indian ricegrass	Oryzopsis hymenoides		
sand beardtongue	Penstemon acuminatus		
Sandberg's bluegrass	Poa sandbergii		
Jim Hill's tumbledustard	Sisymbrium altissimum		

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
Unidentified/Unlisted herps	Unidentified/Unlisted herps	Common	Small lizard

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
California quail	Callipepla californica	1	

ECAP Database Query Results for E-009c

Observer: *Freeman-Cadoret, Natalie*Date *05/07/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
hoary aster	Machaeranthera canescens	5	
Sandberg's bluegrass	Poa sandbergii	5	
Russian thistle	Salsola kali	5	
cheatgrass	Bromus tectorum	40	
gray rabbitbrush	Chrysothamnus nauseosus	1	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
bur ragweed	Ambrosia acanthicarpa		
fiddleneck	Amsinckia lycopsoides		
big sagebrush	Artemisia tridentata		
asparagus	Asparagus officinalis		
buckwheat milkvetch	Astragalus caricinus		
stalked-pod milkvetch	Astragalus sclerocarpus		
green rabbitbrush	Chrysothamnus viscidiflorus		
slender sixweeks	Festuca octoflora		
Indian ricegrass	Oryzopsis hymenoides		
Jim Hill's tumbled mustard	Sisymbrium altissimum		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
unknown/unidentified small mammal		small mammal	Present

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	

ATTACHMENT 13

FIELD DATA FOR THE REPROCESSING FACILITY / HLW DEBRIS STORAGE
FACILITIES / RPPDF SITE IN THE 200 AREAS CORRIDOR

ECAP Database Query Results for 2007-600-018

Observer: *Downs, Janelle*Date *05/03/2007**Plant*

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
yarrow	Achillea millefolium		
big sagebrush	Artemisia tridentata		
buckwheat milkvetch	Astragalus caricinus		
crouching milkvetch	Astragalus succumbens		
Carey's balsamroot	Balsamorhiza careyana		
cheatgrass	Bromus tectorum		
sagebrush mariposa lily	Calochortus macrocarpus		
green rabbitbrush	Chrysothamnus viscidiflorus		
slender hawksbeard	Crepis atrabarba		
threadleaf fleabane	Erigeron filifolius		
shaggy fleabane	Erigeron pumilis		
slender sixweeks	Festuca octoflora		
spiny hopsage	Grayia spinosa		
jagged chickweed	Holosteum umbellatum		
bigseed desertparsley	Lomatium macrocarpum		
hoary aster	Machaeranthera canescens		
pink microsteris	Microsteris gracilis		
Indian ricegrass	Oryzopsis hymenoides		
longleaf phlox	Phlox longifolia		
Sandberg's bluegrass	Poa sandbergii		
Jim Hill's tumbled mustard	Sisymbrium altissimum		
bottlebrush grass	Sitanion hystrix		
needle-and-thread grass	Stipa comata		
Yellow salsify	Tragopogon dubius		

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
black-tailed jackrabbit	Lepus californicus	Common	Scat and tracks
mule deer	Odocoileus hemionus	Present	
badger	Taxidea taxus	Common	

Herps

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
side-blotched lizard	Uta stansburiana	Present	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
loggerhead shrike	Lanius ludovicianus	4	
white-crowned sparrow	Zonotrichia leucophrys	3	
sage sparrow	Amphispiza belli	2	
horned lark	Eremophila alpestris		
western meadowlark	Sturnella neglecta	1	

Observer: *Sackschewsky, Mike*Date *04/24/2007****Plant***

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
needle-and-thread grass	Stipa comata	5	
big sagebrush	Artemisia tridentata	25	
cheatgrass	Bromus tectorum	20	
Sandberg's bluegrass	Poa sandbergii	15	
cushion fleabane	Erigeron poliospermus	+	
yarrow	Achillea millefolium		
crested wheatgrass	Agropyron cristatum		
fiddleneck	Amsinckia lycopsoides		
buckwheat milkvetch	Astragalus caricinus		
crouching milkvetch	Astragalus succumbens		
Carey's balsamroot	Balsamorhiza careyana		
sagebrush mariposa lily	Calochortus macrocarpus		
gray rabbitbrush	Chrysothamnus nauseosus		
green rabbitbrush	Chrysothamnus viscidiflorus		
bastard toadflax	Comandra umbellata		
horseweed	Conyza canadensis		
slender hawksbeard	Crepis atrabarba		
matted cryptantha	Cryptantha circumscissa		
turpentine springparsley	Cymopterus terebithinus		
western tansymustard	Descurainia pinnata		
spring whitlowgrass	Draba verna		
tall willowherb	Epilobium paniculatum		
threadleaf fleabane	Erigeron filifolius		
shaggy fleabane	Erigeron pumilis		
slender sixweeks	Festuca octoflora		
yelllow bell	Fritillaria pudica		
shy gilia	Gilia sinuata		
spiny hopsage	Grayia spinosa		
jagged chickweed	Holosteum umbellatum		

white-daisy tidytips	Layia glandulosa
bigseed desertparsley	Lomatium macrocarpum
low lupine	Lupinus pusillus
hoary aster	Machaeranthera canescens
pink microsteris	Microsteris gracilis
longleaf phlox	Phlox longifolia
pine bluegrass	Poa scabrella
Russian thistle	Salsola kali
Jim Hill's tumbledustard	Sisymbrium altissimum
bottlebrush grass	Sitanion hystrix
Yellow salsify	Tragopogon dubius

Mammal

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
black-tailed jackrabbit	Lepus californicus	Present	
mule deer	Odocoileus hemionus	Present	
badger	Taxidea taxus	Common	

Bird

<u>Common Name</u>	<u>Latin Name</u>	<u>Abundance</u>	<u>Comments</u>
loggerhead shrike	Lanius ludovicianus	2	
horned lark	Eremophila alpestris		
western meadowlark	Sturnella neglecta		
white-crowned sparrow	Zonotrichia leucophrys		