
Environmental Surveillance Master Sampling Schedule

L. E. Bisping

January 1992

**Prepared for the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830**

**Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**



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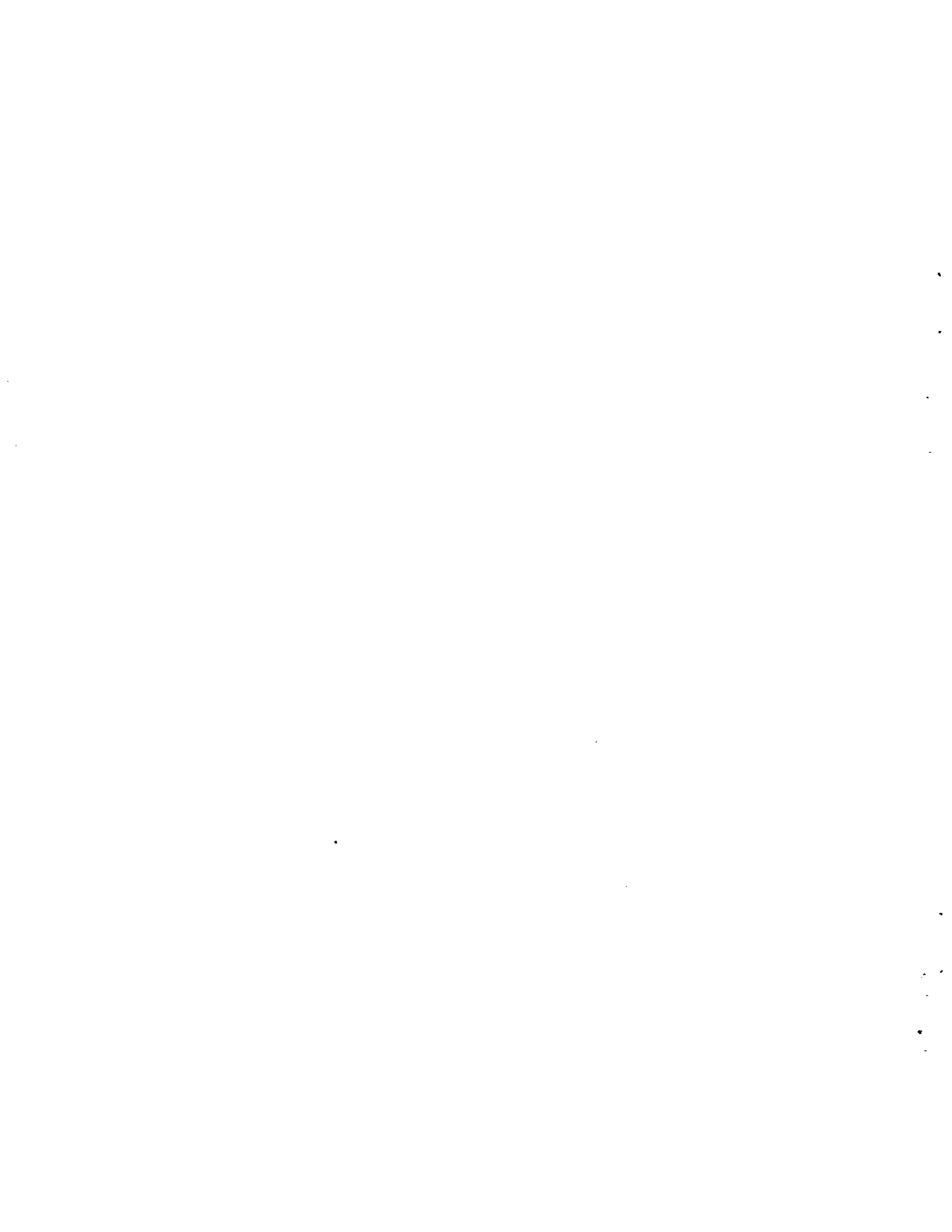
ENVIRONMENTAL SURVEILLANCE
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Pacific Northwest Laboratory
Richland, Washington 99352



SUMMARY

Environmental surveillance of the Hanford Site and surrounding areas is conducted by the Pacific Northwest Laboratory (PNL)^(a) for the U.S. Department of Energy (DOE). This document contains the planned schedule for routine sample collection for the Surface Environmental Surveillance Project (SESP) and Ground-Water Monitoring Project. The routine sampling plan for the SESP has been revised this year to reflect changing site operations and priorities. Some sampling previously performed at least annually has been reduced in frequency, and some new sampling to be performed at a less than annual frequency has been added. Therefore, the SESP schedule reflects sampling to be conducted in calendar year 1992 as well as future years. The ground-water sampling schedule is for 1992. This schedule is subject to modification during the year in response to changes in Site operations, program requirements, and the nature of the observed results. Operational limitations such as weather, mechanical failures, sample availability, etc., may also require schedule modifications. Changes will be documented in the respective project files, but this plan will not be reissued.

The purpose of these monitoring projects is to evaluate levels of radioactive and nonradioactive pollutants in the Hanford environs, as required in DOE Order 5400.1, "General Environmental Protection Program," DOE Order 5400.5, "Radiation Protection of the Public and the Environment." The sampling methods will be the same as those described in the Environmental Monitoring Plan United States Department of Energy Richland Field Office, DOE/RL 91-50, U.S. Department of Energy, Richland, Washington.

This schedule includes ground-water sampling performed by PNL for environmental surveillance of the Hanford Site. It also identifies samples that are collected and analyzed by other ground-water monitoring programs at Hanford (e.g. RCRA or CERCLA). They are indicated by a zero in the analysis column of the ground-water tables. Additional detail on the rationale for ground-water sampling is

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presented in Bryce, R. W., J. C. Evans, and K. B. Olsen. 1991. Ground-Water Sample Collection and Analysis Plan for the Hanford Site Ground-Water Surveillance Project. PNL-7872, Pacific Northwest Laboratory, Richland, Washington.

Environmental and ground-water samples that are split with the Washington State Department of Health are indicated in the schedule as well as environmental samples that are split with the U.S. Food and Drug Administration.

Questions can be directed to Rodger Woodruff, Manager, Surface Environmental Surveillance Project, and Robert Bryce, Manager, Ground-Water Environmental Surveillance Project.

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ABBREVIATIONS

FREQUENCY SYMBOLS USED

A - annually
BA - biannually
BM - bimonthly (every 2 months)
BW - biweekly (every 2 weeks)
M - monthly
M Comp - monthly composite
Q - quarterly
SA - semiannually
W - weekly

ANALYSIS SYMBOLS USED

Generally, standard elements, chemical, and isotope designations are used to indicate the analyses performed. Other analyses designations used are:

Alpha - gross alpha activity of sample

Beta - gross beta activity of sample

BOD - biological oxygen demand

DO - dissolved oxygen

Gamma Scan - analysis of photon energy spectrum for individual photon-emitting radionuclides, including ^{22}Na , ^{60}Co , ^{65}Zn , ^{106}Ru , ^{131}I , and ^{137}Cs

U - natural uranium

Isotopic uranium - ^{234}U , ^{235}U , ^{238}U

Isotopic plutonium - ^{238}Pu , $^{239-240}\text{Pu}$

Lo ^3H - analytical procedure includes electrolytic enrichment

WQ - water quality - nonradiological

LEP - samples analyzed by Low Energy Photon System

NRA - not routinely analyzed

Comp. Only - sample analyzed as part of composite only

PORTABLE INSTRUMENTS SYMBOLS USED

BICRON - Micro rem meter

GM - Geiger-Müller counter

PIC - Pressurized Ionization Chamber

COMMENT ABBREVIATIONS USED

Source - well being samples to monitor a contaminant source area

Plume - well used to track and define known contaminant plumes.

CAS - well part of a confined aquifer study.

Water Supply - Water supply wells and wells near water supplies

DOH - Wells co-sampled with the Washington State Department of Health

Boundary - wells at the Hanford Site boundary used to monitor the quality of water as it enters or leaves the Site.

Background - wells in uncontaminated areas of the site used to identify concentrations of constituents in areas unaffected by Hanford operations

Offsite - wells sampled to determine water quality off the Site

Screen - wells being sampled as part of a new effort

3D-Char - wells being screened to support an effort to characterize contaminant distribution in three dimensions

PART I. HANFORD SURFACE ENVIRONMENTAL SURVEILLANCE

1.0 SAMPLES FOR RADIOLOGICAL ANALYSES

1.1 AIR - PARTICULATE FILTER

Location	Location Number	Individual Samples			Composited Sample			
		Sample Number	Frequency	Analyses	Composite Group	Sample Number	Frequency	Analyses
<u>Onsite</u>								
100-K	1	0058	BW	Beta, Alpha	100 Areas	1753	Q	Gamma Scan ⁹⁰ Sr, Pu(a)
100-N (WPPSS)	2	1529	BW	Beta, Alpha				
100-D	3	1074	BW	Beta, Alpha				
Rt. 11 A-Mile 9	4	0249	BW	NRA				
N of 200-E	5	0051	BW	NRA				
E of 200-E	6	0030	BW	Beta, Alpha	200 East	1749	Q	Gamma Scan ⁹⁰ Sr, Pu(a), U(b)
200-ESE	7	0043	BW	Beta, Alpha				
S of 200-E	8	0031	BW	Beta, Alpha				
B Pond	9	0038	BW	Beta, Alpha	B Pond	1738	Q	Gamma Scan ⁹⁰ Sr, Pu(a), U(b)
B Pond No. 2	9	0039	BW	Comp. Only				
SW of B/C Cribs	10	0250	BW	Beta, Alpha	200-W South and East	0614	Q	Gamma Scan ⁹⁰ Sr, Pu(a), U(b)
Army Loop Camp	11	0248	BW	Beta, Alpha				
200 Tel. Exchange	12	0052	BW	Beta, Alpha				
200-W SE	13	0026	BW	Beta, Alpha	200 West	1739	Q	Gamma Scan ⁹⁰ Sr, Pu(a), U(b)
200-W SE No. 2	13	0027	BW	Comp. Only				
300 Water Intake	14	1793	BW	Beta	300 Area	1741	Q	Gamma Scan ⁹⁰ Sr, Pu(a), U(b)
300 South Gate	15	6150	BW	Beta, Alpha				
300 Trench	16	1542	BW	Beta, Alpha	300 NE	0298	Q	Gamma Scan ⁹⁰ Sr, Pu(a), U(b)
300 NE	17	0022	BW	Beta, Alpha				
400-E	18	6308	BW	Beta, Alpha	400 Area	6465	Q	Gamma Scan ⁹⁰ Sr, Pu(a)
400-W	19	6455	BW	Beta, Alpha				
400-S	20	6456	BW	Beta, Alpha				
400-N	21	6457	BW	Beta, Alpha				
Hanford Townsite	22	0057	BW	NRA				
Hanford No. 2	22	0035	BW	NRA				
Wye Barricade	23	0924	BW	NRA				
Wye Barricade No. 2	23	0036	BW	NRA				
<u>Perimeter</u>								
Berg Ranch	24	1405	BW	NRA	Ringold Met Tower	0286	Q	Gamma Scan ⁹⁰ Sr, Pu(a)
Ringold Met Tower	25	0048	BW	Beta, Alpha				
Ringold Met Tower No. 2	25	0285	BW	Comp. Only				
W End of Fir Rd	26	6391	BW	Beta, Alpha	W. End of Fir Road	0291	Q	Gamma Scan ⁹⁰ Sr, U(b)
W End of Fir Rd No. 2	26	0290	BW	Comp. Only				
Pettett Farm	27	6351	BW	Beta, Alpha	Southeast Perimeter	0293	Q	Gamma Scan ⁹⁰ Sr, Pu(a), U(b)
Byers Landing	28	0247	BW	Beta, Alpha				

1.1 AIR - PARTICULATE FILTER (contd)

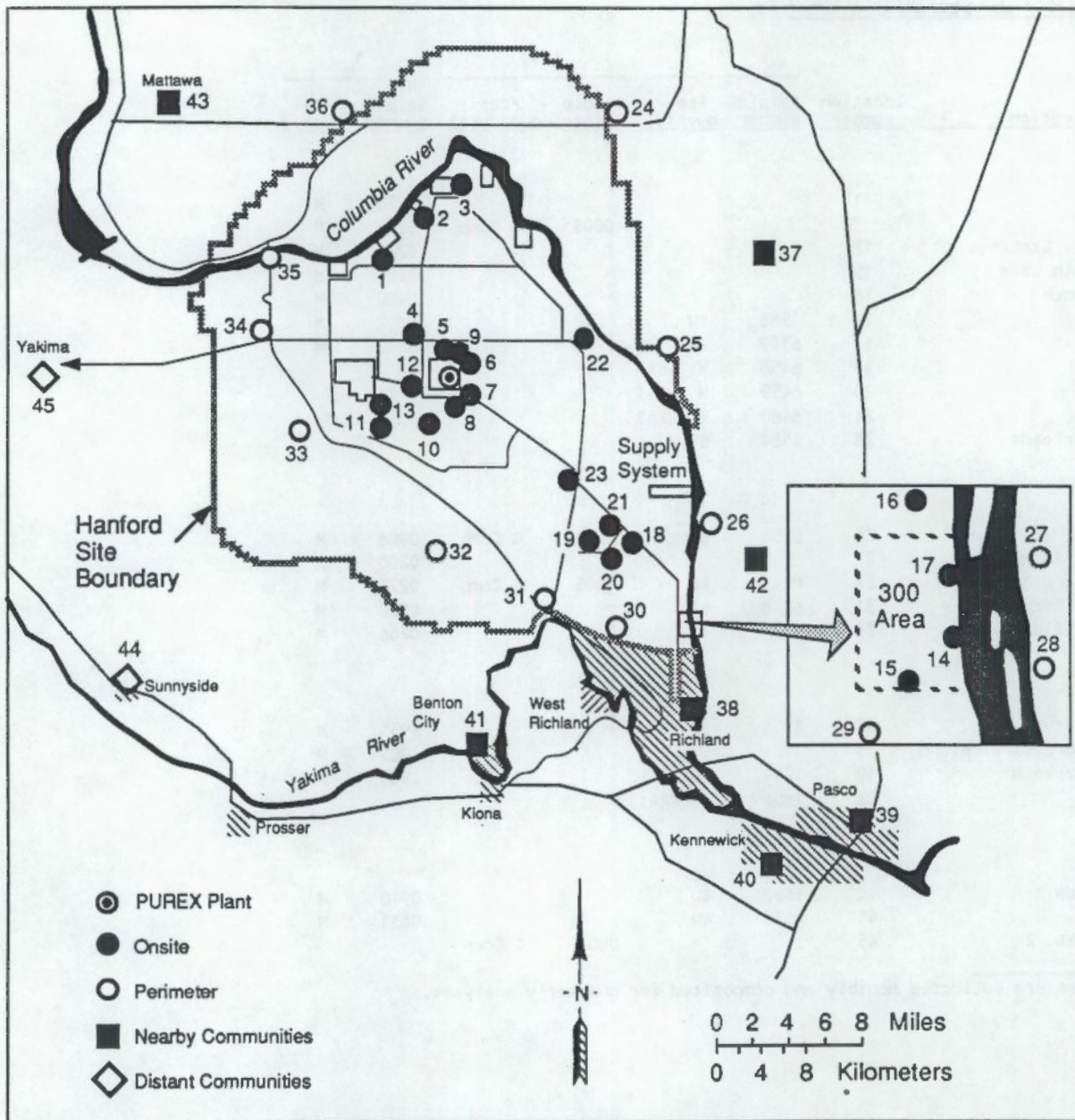
Location	Location Number	Individual Samples			Composited Sample			
		Sample Number	Frequency	Analyses	Composite Group	Sample Number	Frequency	Analyses
<u>Perimeter</u>								
Battelle Complex	29	6182	BW	NRA				
Horn Rapids Substation	30	0050	BW	Beta, Alpha	Prosser Barricade	0606	Q A	Gamma Scan ⁹⁰ Sr, Pu ^(a) , U ^(b)
Prosser Barricade	31	0055	BW	Beta, Alpha				
ALE Field Lab	32	0929	BW	NRA				
ALE Field Lab No. 2	32	0025	BW	NRA				
Rattlesnake Springs	33	0972	BW	Beta, Alpha	West Perimeter	0607	Q A	Gamma Scan ⁹⁰ Sr, Pu ^(a)
Yakima Barricade	34	1650	BW	Comp. Only				
Wahluke Slope	36	1551	BW	Beta, Alpha	Northwest Perimeter	0608	Q A	Gamma Scan ⁹⁰ Sr, Pu ^(a)
Vernita Bridge S End	35	1651	BW	Beta				
<u>Community</u>								
Basin City	37	1930	BW	Beta, Alpha	Basin City	1932	Q A	Gamma Scan ⁹⁰ Sr, Pu ^(a) , U ^(b)
Basin City No. 2	37	1931	BW	Comp. Only				
Leslie Groves-Richland	38	1900	BW	Beta, Alpha	Richland	1902	Q A	Gamma Scan ⁹⁰ Sr, Pu ^(a) , U ^(b)
Leslie Groves-Richland	38	1901	BW	Comp. Only				
Pasco	39	1654	BW	Beta	Tri-Cities	0610	Q A	Gamma Scan ⁹⁰ Sr, Pu ^(a)
Kennewick	40	1655	BW	Beta, Alpha				
Benton City	41	0029	BW	NRA				
Benton City No. 2	41	0021	BW	NRA				
Edwin Markham	42	1915	BW	Beta, Alpha	Edwin Markham	1917	Q A	Gamma Scan ⁹⁰ Sr, Pu ^(a) , U ^(b)
Edwin Markham No. 2	42	1916	BW	Comp. Only				
Mattawa	43	0626	BW	NRA				
Mattawa No. 2	43	0034	BW	NRA				
<u>Distant</u>								
Sunnyside	44	0964	BW	Beta, Alpha	Sunnyside	1748	Q A	Gamma Scan ⁹⁰ Sr, Pu ^(a) , U ^(b)
Sunnyside No. 2	44	0032	BW	Comp. Only				
Yakima	45	0624	BW	Beta, Alpha	Yakima	0623	Q A	Gamma Scan ⁹⁰ Sr, Pu ^(a) , U ^(b)
Yakima No. 2	45	0040	BW	Comp. Only				

(a) Isotopic plutonium.
(b) Isotopic uranium.

1.2 AIR - GASES AND VAPOR

Location	Location Number	^{131}I		^{129}I		^3H	
		Sample Number	Frequency	Sample Number	Frequency(a)	HTO Sample Number	Frequency
<u>Onsite</u>							
100-K	1					0278	M
200-ESE	7			0008	Q Comp	6201	M
200 Tel. Exchange	12					0275	M
300 South Gate	15					0279	M
300 Trench	16					0900	M
300 NE	17	1583	BW			6202	M
400-E	18	6309	BW			6428	M
400-W	19	6458	M (NRA)				
400-S	20	6459	M (NRA)				
400-N	21	6460	M (NRA)				
Wye Barricade	23	1584	BW				
<u>Perimeter</u>							
Ringold Met. Tower	25	0258	BW	0004	Q Comp	0906	M
Pettett Farm	27					0280	M
Byers Landing	28	0246	BW	0005	Q Comp	0273	M
Prosser Barricade	31	6248	BW			0908	M
Wahluke Slope	36					0266	M
<u>Community</u>							
Basin City	37	1934	BW			1935	M
Leslie Groves-Richland	38	1904	BW			1905	M
Edwin Markham	42	1919	BW			1920	M
Mattawa	43	1656	M (NRA)				
<u>Distant</u>							
Sunnyside	44	1680	BW			0910	M
Yakima	45	0630	BW			0631	M
Yakima No. 2	45			0001	Q Comp		

(a) Samples are collected monthly and composited for quarterly analyses.



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Air Sampling Location Map

1.3 WATER - COLUMBIA RIVER

Location ^(a)	Sample Type	Sample Number	Frequency	Analyses
Priest Rapids Dam	Cumulative (collected weekly)	1265	M Comp	Alpha, Beta, Lo ³ H, Gamma Scan, ⁹⁰ Sr, ⁹⁹ Tc, U ^(b)
	Particulate (filter)	6395	M Comp ^(c) Q Comp	Gamma Scan Pu ^(d)
	Soluble (resin)	6394	M Comp ^(c) Q Comp	Gamma Scan ¹²⁹ I, Pu ^(d)
Richland	Cumulative (collected weekly)	1001	W	Alpha, Beta
	Cumulative (collected weekly)	1000	M Comp	Alpha, Beta, Lo ³ H, Gamma Scan, ⁹⁰ Sr, ⁹⁹ Tc, U ^(b)
	Particulate (filter)	6463	M Comp ^(c) Q Comp	Gamma Scan Pu ^(d)
	Soluble (resin)	6464	M Comp ^(c) Q Comp	Gamma Scan ¹²⁹ I, Pu ^(d)
Richland Pumphouse	Grab (Transect)	0181 - 0190 ^(e)	Q	Alpha, Beta, ³ H, Gamma Scan, ⁹⁰ Sr, U ^(b) , Volatile Organics, ICP Metals, Anions
300 Water Intake	Particulate (filter)	6385	M Comp ^(c) Q Comp	Gamma Scan Pu ^(d)
	Soluble (resin)	6384	M Comp ^(c) Q Comp	Gamma Scan ¹²⁹ I, Pu ^(d)
Vernita	Grab (Transect)	0171 - 0180 ^(e)	Q	Alpha, Beta, ³ H, Gamma Scan, ⁹⁰ Sr, U ^(b) , Volatile Organics, ICP Metals, Anions

- (a) Refer to Surface Water and Drinking Water Sampling Location Map.
 (b) Isotopic uranium.
 (c) Composite of biweekly sample.
 (d) Isotopic plutonium.
 (e) 10 samples are scheduled for collection.

1.4 WATER - COLUMBIA RIVER (NONRADIOLOGICAL)

Location ^(a)	Sample Type	Sample Number	Frequency	Analyses ^(b)
Vernita	Grab	1373 (1615) ^(c)	M	NO ₃ , BOD, Coliforms, Fecal Coliforms, pH
			Q	WQ-NASQAN, Temp, DO, Turbidity, pH, Fecal Coliform, SS, DS, Cond, Hardness as CaCO ₃ , P, Cr, N-Kjeldahl, TOC, Fe, NH ₃ -N
Below Priest Rapids Dam	Thermograph	1266	Continuous	Temperature
Richland	Grab	1365 (1041) ^(c)	M	NO ₃ , BOD, Coliforms, Fecal Coliforms, pH
			Q	WQ-NASQAN, Temp, DO, Turbidity, pH, Fecal Coliform, SS, DS, Cond, Hardness as CaCO ₃ , P, Cr, N-Kjeldahl, TOC, Fe, NH ₃ -N
	Thermograph	1003	Continuous	Temperature

(a) Refer to Surface Water and Drinking Water Sampling Location Map.

(b) Monthly analyses are performed by the Hanford Environmental Health Foundation (HEHF). Numerous water quality (WQ) analyses are performed by the United States Geological Survey (USGS) in conjunction with the National Stream Quality Accounting Network (NASQAN) Program. Thermograph stations are operated and maintained by the USGS.

(c) Analytical results are retrieved from the environmental data base using this sample number.

1.5 WATER - ONSITE POND

Location ^(a)	Sample Type	Sample Number	Frequency	Analyses
West Lake	Grab	6133	Q	Alpha, Beta, ³ H, ⁹⁰ Sr, U ^(b) , Gamma Scan
B Pond	Grab	0015	M	Alpha, Beta, ³ H, ⁹⁰ Sr, ⁹⁹ Tc, Gamma Scan
FFTF Pond	Grab	6467	Q	Alpha, Beta, ³ H, Gamma Scan

(a) Refer to Surface Water and Drinking Water Sampling Location Map.

(b) Isotopic uranium.

1.6 WATER - SPRING

<u>Location^(a)</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
100-N Spring 8-13	Grab	0115	A	Alpha, Beta, ⁹⁰ Sr, ⁹⁹ Tc, Gamma Scan, NO ₃ -N, DOH ^(b)
Hanford Spring 28-2	Grab	0116	A	Alpha, Beta, ³ H, ⁹⁹ Tc, Gamma Scan, ¹²⁹ I, NO ₃ -N, DOH ^(b)
300 Area Spring 42-2	Grab	0117	A	Alpha, Beta, U ^(c) , Gamma Scan, NO ₃ -N, DOH ^(b)

(a) Refer to Surface Water and Drinking Water Sampling Location Map.
 (b) Duplicate samples sent to the Washington State Department of Health.
 (c) Isotopic uranium.

1.7 WATER - IRRIGATION

<u>Location^(a)</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Number of Samples</u>	<u>Collection Period</u>	<u>Analyses</u>
Riverview Canal	Grab	0098	3	May-Sept	Alpha, Beta, ³ H, ⁹⁰ Sr, U ^(b) , Gamma Scan

(a) Refer to Surface Water and Drinking Water Sampling Location Map.
 (b) Isotopic uranium.

1.8 WATER - DRINKING

<u>Location^(a)</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
<u>Onsite</u>				
100-B River	Grab	6518	Q	Alpha, Beta, Lo ³ H, ⁹⁰ Sr, Gamma Scan
100-D River	Grab	1219	Q	Alpha, Beta, ³ H, ⁹⁰ Sr, Gamma Scan
Yakima Barricade	Grab	6543	Q	Alpha, Beta, ³ H, ⁹⁰ Sr, Gamma Scan
Observatory	Grab	6381	Q	Alpha, Beta, ³ H, ⁹⁰ Sr, Gamma Scan
FFTF	Grab	1220	M A	Alpha, Beta, ³ H, ⁹⁰ Sr, Gamma Scan ¹²⁹ I
300 Water Intake	Cumulative	6243	Q Comp ^(b)	Alpha, Beta, Lo ³ H, ⁹⁰ Sr, ⁹⁹ Tc, U ^(c) , Gamma Scan
Firing Range	Grab	0099	Q	Alpha, Beta, ³ H, ⁹⁰ Sr, Gamma Scan
ALE Headquarters	Grab	6299	Q	Alpha, Beta, ³ H, ⁹⁰ Sr, Gamma Scan

1.8 WATER - DRINKING (contd)

Location ^(a)	Sample Type	Sample Number	Frequency	Analyses
<u>Offsite</u>				
Ringold Hatchery	Grab	0995	A	Alpha, Beta, ³ H, U ^(c) , Gamma Scan, ¹²⁹ I, WQ ^(d)
Mathews Corner	Grab	0997	A	Alpha, Beta, ³ H, U ^(c) , Gamma Scan, ¹²⁹ I, WQ ^(d)
White Bluffs Shallow	Grab	0993	A	Alpha, Beta, ³ H, U ^(c) , Gamma Scan, ¹²⁹ I, WQ ^(d)
White Bluffs Deep	Grab	0994	A	Alpha, Beta, ³ H, U ^(c) , Gamma Scan, ¹²⁹ I, WQ ^(d)
Alexander Farm	Grab	0999	A	Alpha, Beta, ³ H, U ^(c) , Gamma Scan, ¹²⁹ I, WQ ^(d) , DOH ^(e)

(a) Refer to Surface Water and Drinking Water Sampling Location Map.

(b) Composite of monthly cumulative samples.

(c) Isotopic uranium.

(d) Water quality analysis performed by HEHF.

(e) Duplicate samples sent to the Washington State Department of Health.



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Surface Water and Drinking Water Sampling Location Map

1.9 FOODSTUFFS - ANIMAL PRODUCTS

1.9.1 Whole Milk

<u>Location^(a)</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
Wahluke Area Composite ^(b)	0305	Q SA	^{131}I , ^3H , ^{90}Sr , Gamma Scan ^{129}I
Sagemoor Area Composite ^(b)	0306	BW M Q SA	^{131}I , Gamma Scan ^3H ^{90}Sr ^{129}I
Sunnyside Area	6355	Q SA	^{131}I , ^3H , ^{90}Sr , Gamma Scan ^{129}I

(a) Refer to Food and Farm Product Surveillance Location Map.

(b) Sample composited from three sources in each area.

1.9.2 Poultry and Eggs

<u>Location^(a)</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
Sagemoor Area	Chicken	6386	SA	^{90}Sr , Gamma Scan
	Eggs	6387	SA	^{90}Sr , Gamma Scan
Sunnyside Area	Chicken	6371	SA	^{90}Sr , Gamma Scan
	Eggs	6370	SA	^{90}Sr , Gamma Scan

(a) Refer to Food and Farm Product Surveillance Location Map.

1.9.3 Beef

<u>Location^(a)</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
Sagemoor Area	6418	A	^{90}Sr , Gamma Scan
Riverview Area	1292	A	^{90}Sr , Gamma Scan
Sunnyside Area	0322	A	^{90}Sr , Gamma Scan

(a) Refer to Food and Farm Product Surveillance Location Map.

1.10 FOODSTUFFS - PRODUCE

1.10.1 Leafy Vegetables

<u>Location</u> ^(a)	<u>Sample Number</u>	<u>Frequency</u> ^(b)	<u>Analyses</u>
Wahluke Area	0308	BA	⁹⁰ Sr, Gamma Scan, DOH ^(c)
Sagemoor Area	6419	A	⁹⁰ Sr, Gamma Scan, ¹²⁹ I-LEP
Riverview Area	1609	A	⁹⁰ Sr, ⁹⁹ Tc, Gamma Scan, DOH ^(c) , FDA ^(d)
Sunnyside Area	6372	A	⁹⁰ Sr, Gamma Scan, DOH ^(c) , FDA ^(d)

(a) Refer to Food and Farm Product Surveillance Location Map.

(b) Three samples collected within each area. Biannual (BA) samples will next be collected in 1992.

(c) Duplicate samples sent to the Washington State Department of Health.

(d) Duplicate samples sent to U.S. Food and Drug Administration.

1.10.2 Vegetables

<u>Location</u> ^(a)	<u>Sample Type</u>	<u>Sample Number</u>	<u>Frequency</u> ^(b)	<u>Analyses</u>
Riverview Area	Potatoes	0009	A	⁹⁰ Sr, Gamma Scan, FDA ^(c)
	Tomatoes	0011	A	⁹⁰ Sr, Gamma Scan
	Carrots	0013	A	⁹⁰ Sr, Gamma Scan
Horn Rapids	Potatoes	0536	A	⁹⁰ Sr, ⁹⁹ Tc, Pu ^(d) , U ^(e) , Gamma Scan, DOH ^(f)
Sagemoor Area	Potatoes	0538	A	⁹⁰ Sr, Pu ^(d) , Gamma Scan, FDA ^(c)
Sunnyside Area	Potatoes	0537	A	⁹⁰ Sr, Pu ^(d) , U ^(e) , ⁹⁹ Tc, Gamma Scan, DOH ^(f) , FDA ^(c)
Wahluke Area	Potatoes	0539	BA	⁹⁰ Sr, Gamma Scan, DOH ^(f)

(a) Refer to Food and Farm Product Surveillance Location Map.

(b) Three samples of each type collected within each area. Biannual (BA) samples will next be collected in 1992.

(c) Duplicate samples sent to U.S. Food and Drug Administration.

(d) Isotopic plutonium.

(e) Isotopic uranium.

(f) Duplicate samples sent to the Washington State Department of Health.

1.10.3 Fruit

Location ^(a)	Sample Type	Sample Number	Frequency ^(b)	Collection Period	Analyses
Sagemoor Area	Apples	0565	A	September	^3H , ^{90}Sr , $\text{Pu}^{(c)}$, Gamma Scan, FDA ^(d)
	Cherries	0543	A	June	^3H , ^{90}Sr , Gamma Scan
	Concord Grapes ^(e)	6417	A	September	^3H , ^{90}Sr , Gamma Scan, ^{129}I -LEP
Cold Creek Area	Apples	0304	BA	September	^3H , ^{90}Sr , Gamma Scan, DOH ^(f)
	Concord Grapes ^(e)	0303	BA	September	^3H , ^{90}Sr , Gamma Scan, DOH ^(f)
Sunnyside Area	Apples	6440	A	September	^3H , ^{90}Sr , $\text{Pu}^{(c)}$, Gamma Scan, DOH ^(f)
	Cherries	6453	A	June	^3H , ^{90}Sr , Gamma Scan, DOH ^(f)
	Concord Grapes ^(e)	6454	A	September	^3H , ^{90}Sr , Gamma Scan, ^{129}I -LEP, DOH ^(f)
Riverview Area	Apples	0541	A	September	^3H , ^{90}Sr , Gamma Scan, FDA ^(d)
	Concord Grapes ^(e)	0542	A	September	^3H , ^{90}Sr , Gamma Scan
	Melons	0012	A	August	^3H , ^{90}Sr , Gamma Scan
Ringold	Apples	0550	A	September	^3H , ^{90}Sr , $\text{Pu}^{(c)}$, Gamma Scan
	Cherries	0551	A	June	^3H , ^{90}Sr , Gamma Scan
Mattawa Area	Apples	0563	BA	September	^3H , ^{90}Sr , Gamma Scan, DOH ^(f)
	Concord Grapes ^(e)	0564	BA	September	^3H , ^{90}Sr , Gamma Scan, DOH ^(f)
Wahluke Area	Apples	0540	BA	September	^3H , ^{90}Sr , Gamma Scan, FDA ^(d) , DOH ^(f)

(a) Refer to Food and Farm Product Surveillance Location Map.

(b) Three samples of each type collected within each area. Biannual (BA) samples will next be collected in 1992.

(c) Isotopic plutonium.

(d) Duplicate samples sent to the U.S. Food and Drug Administration.

(e) Concord grapes preferred; table grapes acceptable if concord grapes are unavailable.

(f) Duplicate samples sent to the Washington State Department of Health.

1.11 FOODSTUFFS - FARM PRODUCTS

1.11.1 Wine

<u>Location^(a)</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Fre- quency^(b)</u>	<u>Collection Period</u>	<u>Analyses</u>
Columbia Basin	White	0544	A	December	^3H , Gamma Scan, DOH ^(c)
	Red	0546	A	December	^3H , Gamma Scan, DOH ^(c)
Yakima Valley	White	0545	A	December	^3H , Gamma Scan, DOH ^(c)
	Red	0547	A	December	^3H , Gamma Scan, DOH ^(c)

(a) Refer to Food and Farm Product Surveillance Location Map.

(b) Three samples of each type collected within each area.

(c) Duplicate samples sent to the Washington State Department of Health.

1.11.2 Wheat and Alfalfa

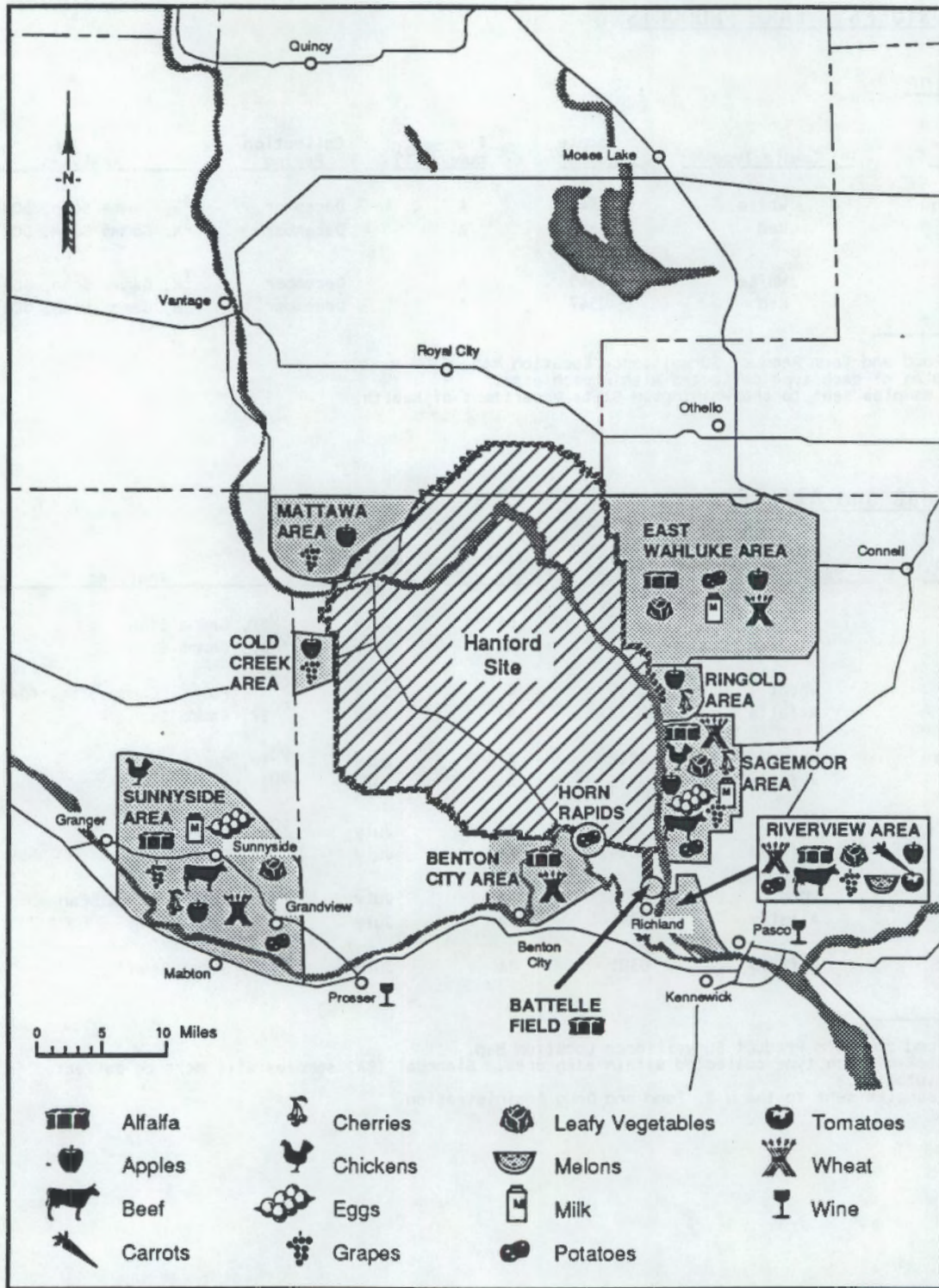
<u>Location^(a)</u>	<u>Sample Type</u>	<u>Sample Number</u>	<u>Fre- quency^(b)</u>	<u>Collection Period</u>	<u>Analyses</u>
Wahluke Area	Wheat	0320	BA	July	^{90}Sr , Gamma Scan
	Alfalfa	0311	BA	July	^{90}Sr , Gamma Scan
Sage Moor Area	Wheat	0319	A	July	^{90}Sr , Pu ^(c) , Gamma Scan, FDA ^(d)
	Alfalfa	0312	A	July	^{90}Sr , Gamma Scan
Riverview Area	Wheat	0318	A	July	^{90}Sr , Gamma Scan
	Alfalfa	0313	A	July	^{90}Sr , Gamma Scan
Benton City Area	Wheat	0317	BA	July	^{90}Sr , Gamma Scan
	Alfalfa	0314	BA	July	^{90}Sr , Gamma Scan
Sunnyside Area	Wheat	0316	BA	July	^{90}Sr , Pu ^(c) , Gamma Scan
	Alfalfa	0315	BA	July	^{90}Sr , Gamma Scan
Battelle Field	Alfalfa	0301	BA	July	^{90}Sr , Gamma Scan

(a) Refer to Food and Farm Product Surveillance Location Map.

(b) Three samples of each type collected within each area. Biannual (BA) samples will next be collected in 1992.

(c) Isotopic plutonium.

(d) Duplicate samples sent to the U.S. Food and Drug Administration.



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Food and Farm Product Surveillance Location Map

1.12 WILDLIFE

1.12.1 Aquatic Biota

Location ^(a)	Species/ Sample	Sample Number	Number of Samples	Collection Period	Analyses
100-N	Whitefish				
	Fillet	6486	10	November	⁹⁰ Sr, Gamma Scan
	Carcass	6487	10	November	⁹⁰ Sr
	Carp				
	Fillet	0345	5	June	⁹⁰ Sr, Gamma Scan, DOH ^(b)
	Carcass	0346	5	June	⁹⁰ Sr, DOH ^(b)
	Clams	0351	1 ^(c)	August	⁹⁰ Sr, Gamma Scan, DOH ^(b)
100-D	Crayfish	0355	1 ^(c)	August	⁹⁰ Sr, ⁹⁹ Tc, Gamma Scan
	Whitefish				
100-F Slough	Fillet	6431	10	November	⁹⁰ Sr, Gamma Scan
	Carcass	6490	10	November	⁹⁰ Sr
	Bass				
300 Area	Fillet	6369	5	June	⁹⁰ Sr, Gamma Scan
	Carcass	0338	5	June	⁹⁰ Sr
300 Area	Whitefish				
	Fillet	6488	10	November	⁹⁰ Sr, U ^(d) , ⁹⁹ Tc, Gamma Scan
	Carcass	6489	10	November	⁹⁰ Sr
	Carp				
	Fillet	0347	5	June	⁹⁰ Sr, Gamma Scan
	Carcass	0348	5	June	⁹⁰ Sr
	Clams	0352	1 ^(c)	August	⁹⁰ Sr, U ^(d) , Gamma Scan
Vantage ^(e)	Crayfish	0356	1 ^(c)	August	⁹⁰ Sr, U ^(d) , ⁹⁹ Tc, Gamma Scan
	Carp				
Kettle River ^(e)	Fillet	0702	20	June	⁹⁰ Sr, U ^(d) , Gamma Scan
	Carcass	0703	20	June	⁹⁰ Sr
Sunnyside ^(e)	Whitefish				
	Fillet	0700	20	November	⁹⁰ Sr, U ^(d) , ⁹⁹ Tc, Gamma Scan
Sunnyside ^(e)	Carcass	0701	20	November	⁹⁰ Sr
	Bass				
Priest Rapids ^(e)	Fillet	0711	20	June	⁹⁰ Sr, U ^(d) , Gamma Scan
	Carcass	0712	20	June	⁹⁰ Sr
Wapato Canal ^(e)	Clams	--	1 ^(c)	August 1995	⁹⁰ Sr, U ^(d) , Gamma Scan
Wapato Canal ^(e)	Crayfish	0704	1 ^(c)	August 1995	⁹⁰ Sr, U ^(d) , ⁹⁹ Tc, Gamma Scan

(a) Refer to Wildlife Surveillance Location Map.

(b) Duplicate samples sent to the Washington State Department of Health.

(c) Sample size for 500 g of clam flesh; Sample size for 300 g of crayfish flesh.

(d) Isotopic uranium.

(e) Background samples to be collected at least once every 5 years and will next be collected in 1995. Sample numbers will be assigned prior to collecting sample.

1.12.2 Ducks

Location ^(a)	Species/ Sample ^(b)	Sample Number	Number of Samples	Collection Period	Analyses
100-N Area	Mallard				
	Muscle	0456	4	August	⁹⁰ Sr, Gamma Scan
	Liver	0457	4	August	NRA ^(c)
	Bone	0458	4	August	NRA ^(c)
B Pond	Mallard				
	Muscle	0444	10	August	⁹⁰ Sr, ⁹⁹ Tc, Gamma Scan, DOH ^(d)
	Liver	0445	10	August	NRA ^(c)
	Bone	0446	10	August	NRA ^(c)
West Lake	Mallard				
	Muscle	6186	4	August	⁹⁰ Sr, Gamma Scan
	Liver	6198	4	August	NRA ^(c)
	Bone	6199	4	August	NRA ^(c)
Vantage ^(e)	Mallard				
	Muscle	--	20	August	⁹⁰ Sr, U ^(f) , ⁹⁹ Tc, Gamma Scan
	Liver	--	20	August	Pu ^(g)
	Bone	--	20	August	⁹⁰ Sr

(a) Refer to Wildlife Surveillance Location Map.

(b) Mallard preferred; other puddle ducks acceptable if mallard is unavailable.

(c) Not Routinely Analyzed (NRA) - Retain liver and bone to be analyzed for isotopic plutonium and ⁹⁰Sr, respectively, if ¹³⁷Cs exceeds 100 pCi/g (wet weight) in the muscle.

(d) Duplicate samples sent to the Washington State Department of Health.

(e) Background samples to be collected at least every 5 years and will next be collected in 1994. Sample numbers will be assigned prior to collecting sample.

(f) Isotopic uranium.

(g) Isotopic plutonium.

1.12.3 Game Birds

Location ^(a)	Species/ Sample ^(b)	Sample Number	Number of Samples	Collection Period	Analyses
100-N Trench	Pheasant				
	Muscle	0479	3	October	⁹⁰ Sr, Gamma Scan
	Liver	0480	3	October	NRA ^(c)
	Bone	0481	3	October	NRA ^(c)
100-D to 100-F	Pheasant				
	Muscle	0473	10	October	Gamma Scan
	Liver	0474	10	October	NRA ^(c)
	Bone	0475	10	October	NRA ^(c)
200-E Area	Pheasant				
	Muscle	0467	3	October	Gamma Scan
	Liver	0468	3	October	NRA ^(c)
	Bone	0469	3	October	NRA ^(c)
200-W Area	Pheasant				
	Muscle	0470	3	October	Gamma Scan
	Liver	0471	3	October	NRA ^(c)
	Bone	0472	3	October	NRA ^(c)
300 Area	Pheasant				
	Muscle	0464	3	October	U ^(d) , Gamma Scan
	Liver	0465	3	October	NRA ^(c)
	Bone	0466	3	October	NRA ^(c)
Yakima County ^(e)	Pheasant				
	Muscle	--	20	September	⁹⁰ Sr, U ^(d) , Gamma Scan
	Liver	--	20	September	Pu ^(f)
	Bone	--	20	September	⁹⁰ Sr

(a) Refer to Wildlife Surveillance Location Map.

(b) Pheasant preferred; chukar or quail acceptable if pheasant is unavailable.

(c) Not Routinely Analyzed (NRA) - Retain liver and bone to be analyzed for isotopic plutonium and ⁹⁰Sr, respectively, if ¹³⁷Cs exceeds 100 pCi/g (wet weight) in muscle.

(d) Isotopic uranium.

(e) Background samples to be collected at least every 5 years and will next be collected in 1994. Sample numbers will be assigned prior to collecting sample.

(f) Isotopic plutonium.

1.12.4 Deer

<u>Location</u> ^(a)	<u>Species/ Sample</u>	<u>Sample Number</u>	<u>Number of Samples</u>	<u>Collection Period</u>	<u>Analyses</u>
100-N Area	Mule				
	Muscle	6250	2	December	Gamma Scan, DOH ^(b) Pu ^(c) 90Sr
	Liver	6251	2	December	
Bone	6303	2	December		
200 Ponds	Mule				
	Muscle	0369	2	December	Gamma Scan Pu ^(c) 90Sr
	Liver	0370	2	December	
Bone	0371	2	December		
Road Kill at Onsite Locations ^(d)	Mule				
	Muscle	ATL ^(e)	6	Annual	Gamma Scan Pu ^(c)
	Liver	ATL	6	Annual	
Ellensburg ^(f)	Mule				
	Muscle	--	2	October	Gamma Scan, DOH ^(b) Pu ^(c) 90Sr
	Liver	--	2	October	
Bone	--	2	October		

(a) Refer to Wildlife Surveillance Location Map.

(b) Duplicate samples sent to the Washington State Department of Health.

(c) Isotopic plutonium.

(d) As available.

(e) ATL - according to location.

(f) Background samples to be collected at least every 5 years and will next be collected in 1995.
Sample numbers will be assigned prior to collecting samples.

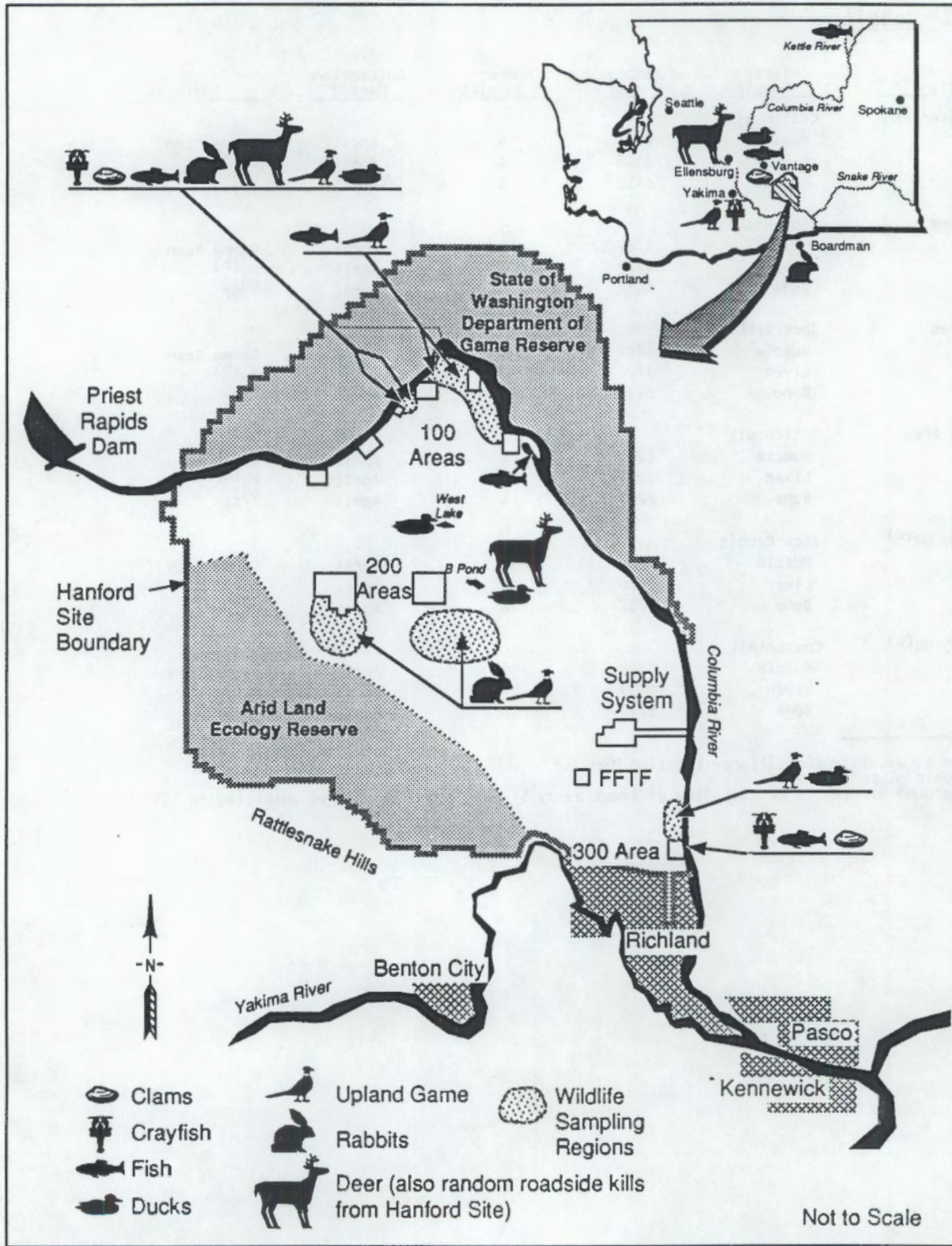
1.12.5 Rabbits

<u>Location (a)</u>	<u>Type/ Sample</u>	<u>Sample Number</u>	<u>Number of Samples</u>	<u>Collection Period</u>	<u>Analyses</u>
100-N River Bank	Cottontail				
	Muscle	6145	4	April	Gamma Scan
	Liver	6146	4	April	pu ^(b)
	Bone	6452	4	April	⁹⁰ Sr
200-E Area	Jack Rabbit				
	Muscle	1769	4	April	Gamma Scan
	Liver	1770	4	April	pu ^(b)
	Bone	6432	4	April	⁹⁰ Sr
200-W Area	Jack Rabbit				
	Muscle	1789	4	April	Gamma Scan
	Liver	1790	4	April	pu ^(b)
	Bone	6413	4	April	⁹⁰ Sr
N of 300 Area	Cottontail				
	Muscle	6203	4	April	Gamma Scan
	Liver	6204	4	April	pu ^(b)
	Bone	6205	4	April	⁹⁰ Sr
Boardman, OR ^(c)	Jack Rabbit				
	Muscle	0705	10	April	Gamma Scan
	Liver	0706	10	April	pu ^(b)
	Bone	0707	10	April	⁹⁰ Sr
Boardman, OR ^(c)	Cottontail				
	Muscle	0708	10	April	Gamma Scan
	Liver	0709	10	April	pu ^(b)
	Bone	0710	10	April	⁹⁰ Sr

(a) Refer to Wildlife Surveillance Location Map.

(b) Isotopic plutonium.

(c) Background samples to be collected at least every 5 years and will next be collected in 1995.



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Wildlife Surveillance Location Map

1.13 SOIL

Location ^(a)	Sample Number	Frequency ^(b)	Collection Period	Analyses
NE of 100-N Area	0590	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
E of 100-N Area	0578	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
100-N Shoreline Above Boundary	0570	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), DOH(e)
100-N Springs Shoreline	0571	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), DOH(e)
100-N Shoreline Below Boundary	0572	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), DOH(e)
100-Area Fire Station	0580	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
200-ENC	6362	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
E of 200-E ^(f)	0581	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
200-ESE ^(f)	6022	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), ²⁴¹ Am
S of 200-E ^(f)	0582	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
SW of B/C Cribs ^(f)	0583	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), ²⁴¹ Am
E of 200-W Gate	6276	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), ²⁴¹ Am
S of 200-W	0584	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Rattlesnake Springs ^(f)	6003	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Yakima Barricade ^(f)	6004	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
400-E	6282	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
SE Side of FFTF	6277	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
N of 300 Area	6322	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
S of 300 Area	6323	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), DOH(e)
Hanford Townsite	6017	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Wye Barricade ^(f)	6016	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Prosser Barricade ^(f)	6225	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
ALE Field Lab	6278	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
N End Vernita Bridge	6005	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Wahlke Slope ^(f)	6007	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Berg Ranch ^(f)	6008	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Ringold	6009	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), DOH(e)
W End of Fir Road	6360	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Taylor Flats No. 2	6421	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Sagemoor Farm	6358	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), ²⁴¹ Am, DOH(e)
Byers Landing ^(f)	6011	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Riverview - Harris	6361	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), DOH(e)
Benton City	6000	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Sunnyside	6357	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), ²⁴¹ Am, DOH(e)
McNary Dam	0504	1/5 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Walla Walla	0502	1/5 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Washtucna	0501	1/5 yr	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d)
Yakima	0512	A	July	Gamma Scan, ⁹⁰ Sr, U(c), Pu(d), DOH(e)

(a) Refer to Sediment, Soil, and Vegetation Surveillance Location Map.

(b) Specified samples are collected once every 3 or 5 years, respectively. The next samples for 1/3-year and 1/5-year locations will be 1993 and 1995, respectively.

(c) ²³⁵U-LEP, ²³⁸U-LEP.

(d) Isotopic plutonium.

(e) Duplicate samples sent to the Washington State Department of Health.

(f) Located at air sampling station.

1.14 VEGETATION

Location ^(a)	Sample Number	Frequency ^(b)	Collection Period	Analyses
NE of 100-N Area	0591	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
E of 100-N Area	0579	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
100 N (Shoreline)	0573	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c) , DOH ^(d)
100 Area Fire Station	0585	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
200-ENC	6368	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
E of 200-E ^(e)	0586	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
200-ESE ^(e)	6068	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
S of 200-E ^(e)	0587	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
SW of B/C Cribs ^(e)	0588	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
E of 200-W Gate	6283	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
S of 200-W	0589	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Rattlesnake Springs ^(e)	6049	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Yakima Barricade ^(e)	6050	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
400-E	6285	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
SE Side of FFTF	6286	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
N of 300 Area	6328	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
S of 300 Area	6329	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
300 Area (Shoreline)	0574	A	July	Gamma Scan, ⁹⁰ Sr, U ^(f) , Pu ^(c)
Hanford Townsite	6063	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Hanford Townsite (shoreline)	0575	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c) , ⁹⁹ Tc, DOH ^(d)
Upstream Hanford (shoreline)	0576	A	July	Gamma Scan, ⁹⁰ Sr, U ^(f) , Pu ^(c) , ⁹⁹ Tc
Wye Barricade ^(e)	6062	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Prosser Barricade ^(e)	6227	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
ALE Field Lab	6287	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
N End Vernita Bridge	6051	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Wahlake Slope ^(e)	6053	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Berg Ranch ^(e)	6054	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Ringold	6055	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
W End of Fir Road	6366	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Taylor Flats No. 2	6423	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Sagemoor Farm	6364	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Byers Landing ^(e)	6057	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Riverview - Harris	6367	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Benton City	6046	1/3 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Sunnyside	6363	A	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c) , DOH ^(d)
McNary Dam	0510	1/5 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Walla Walla	0508	1/5 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Washtucna	0507	1/5 yr	July	Gamma Scan, ⁹⁰ Sr, U, Pu ^(c)
Yakima	0513	A	July	Gamma Scan, ⁹⁰ Sr, U ^(f) , Pu ^(c)

(a) Refer to Sediment, Soil, and Vegetation Surveillance Location Map.

(b) Specified samples are collected once every 3 or 5 years, respectively. The next sampling for 1/3-year and 1/5-year locations will be 1993 and 1995, respectively.

(c) Isotopic plutonium.

(d) Duplicate samples sent to the Washington State Department of Health.

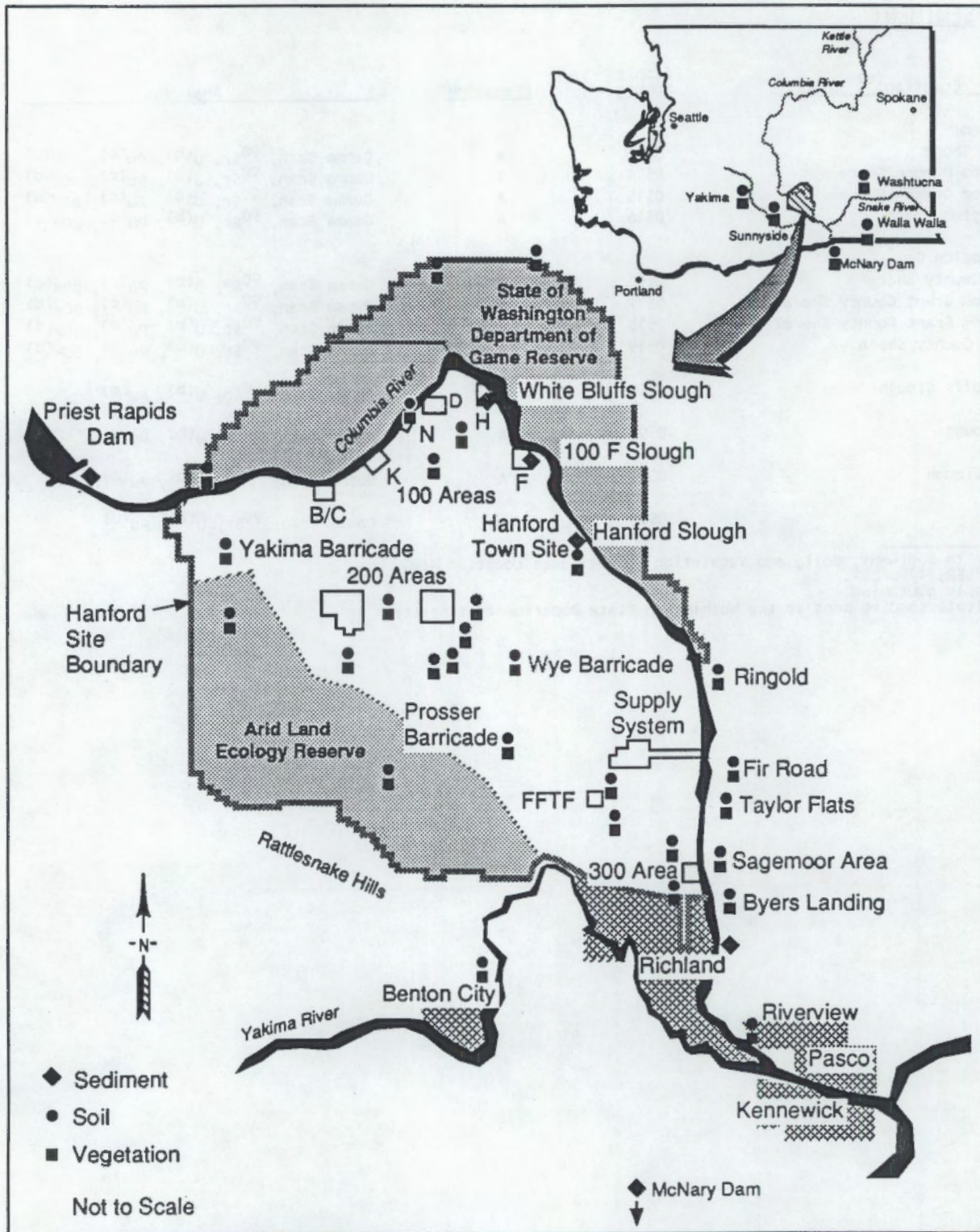
(e) Located at air sampling station.

(f) Isotopic uranium.

1.15 SEDIMENT

<u>Location</u> ^(a)	<u>Sample Number</u>	<u>Frequency</u>	<u>Analyses</u>
McNary Dam			
Oregon Shore	0595	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c) , DOH ^(d)
1/3 from Oregon Shore	0514	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c) , DOH ^(d)
2/3 from Oregon Shore	0515	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c) , DOH ^(d)
Washington Shore	0516	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c) , DOH ^(d)
Priest Rapids Dam			
Grant County Shore	0596	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c) , DOH ^(d)
1/3 from Grant County Shore	0517	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c) , DOH ^(d)
2/3 from Grant County Shore	0518	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c) , DOH ^(d)
Yakima County Shore	0519	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c) , DOH ^(d)
White Bluffs Slough	0592	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c)
100-F Slough	0593	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c)
Hanford Slough	0594	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c)
Richland	0597	A	Gamma Scan, ⁹⁰ Sr, U ^(b) , Pu ^(c)

- (a) Refer to Sediment, Soil, and Vegetation Surveillance Location Map.
 (b) ²³⁵U-LEP, ²³⁸U-LEP.
 (c) Isotopic plutonium.
 (d) Duplicate samples sent to the Washington State Department of Health.



S9201019.1

Sediment, Soil, and Vegetation Surveillance Location Map

2.0 DIRECT RADIATION MEASUREMENTS

2.1 THERMOLUMINESCENT DOSIMETERS (TLDs)

2.1.1 Terrestrial Locations

<u>Location</u>	<u>Location Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Measurement</u>	<u>Instrument</u>
<u>Onsite^(a)</u>					
100-K ^(b)	1	1138	Q	Ambient Dose	
100-N (WPPSS) ^(b)	2	1136	Q	Ambient Dose	
100-D ^(b)	3	1398	Q	Ambient Dose	
Rt. 11A-Mile 9 ^(b)	4	1140	Q	Ambient Dose, DOH ^(c)	
N of 200-E ^(b)	5	1141	Q	Ambient Dose, DOH ^(c)	
200 Tel. Exchange ^(b)	8	1142	Q	Ambient Dose, DOH ^(c)	
200 W SE ^(b)	11	1143	Q	Ambient Dose	
SW of B/C Cribs ^(b)	9	1144	Q	Ambient Dose, DOH ^(c)	
S of 200-E ^(b)	10	1145	Q	Ambient Dose, DOH ^(c)	
B Pond ^(b)	12	1146	Q	Ambient Dose	
E of 200-E ^(b)	6	1148	Q	Ambient Dose, DOH ^(c)	
200-ESE ^(b)	7	1399	Q	Ambient Dose, DOH ^(c)	
3705 Building	18	1149	Q	Ambient Dose	
300 Water Intake ^(b)	15	1150	Q	Ambient Dose	
300 Southwest Gate	17	1151	Q	Ambient Dose	
300 South Gate ^(b)	16	1152	Q	Ambient Dose	
300 Trench ^(b)	14	1153	Q	Ambient Dose	
300 NE ^(b)	13	1154	Q	Ambient Dose	
400-E ^(b)	19	1400	Q	Ambient Dose	
400-W ^(b)	20	1155	Q	Ambient Dose	
400-S ^(b)	21	1156	Q	Ambient Dose	
400-N ^(b)	22	1158	Q	Ambient Dose	
Wye Barricade ^(b)	23	1395	Q	Ambient Dose, DOH ^(c)	
US Ecology NE Corner	24	0118	Q	Ambient Dose, DOH ^(c)	
US Ecology SE Corner	25	0119	Q	Ambient Dose, DOH ^(c)	
US Ecology NW Corner	26	0120	Q	Ambient Dose, DOH ^(c)	
US Ecology SW Corner	27	0121	Q	Ambient Dose, DOH ^(c)	
WPPSS 1 S of WNP 2	28	0122	Q	Ambient Dose, DOH ^(c)	
<u>Perimeter^(d)</u>					
Ringold Met. Tower ^(b)	1	0930	Q	Ambient Dose	
Byers Landing ^(b)	2	1166	Q	Ambient Dose	
Battelle Complex ^(b)	3	1167	Q	Ambient Dose	
S End Vernita Bridge ^(b)	4	1173	Q	Ambient Dose	
WPPSS 4 WPPSS Warehouse	5	0123	Q	Ambient Dose, DOH ^(c)	
WPPSS 8 Fir Road	6	0124	Q	Ambient Dose, DOH ^(c)	
<u>Community^(d)</u>					
Basin City ^(b)	7	1936	Q	Ambient Dose	PIC ^(e)
Pasco ^(b)	8	1378	Q	Ambient Dose	
Kennewick ^(b)	9	1379	Q	Ambient Dose	
Benton City ^(b)	10	1381	Q	Ambient Dose	
Mattawa ^(b)	11	1384	Q	Ambient Dose	
Edwin Markham ^(b)	12	1921	Q	Ambient Dose	PIC ^(e)
Richland (LGP) ^(b)	13	1384	Q	Ambient Dose	PIC ^(e)

2.1.1 Terrestrial Locations (contd)

<u>Location</u>	<u>Location Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Measurement</u>	<u>Instrument</u>
<u>Distant^(d)</u>					
Sunnyside ^(b)	14	1388	q	Ambient Dose, DOH ^(c)	
Yakima ^(b)	15	1389	q	Ambient Dose, DOH ^(c)	

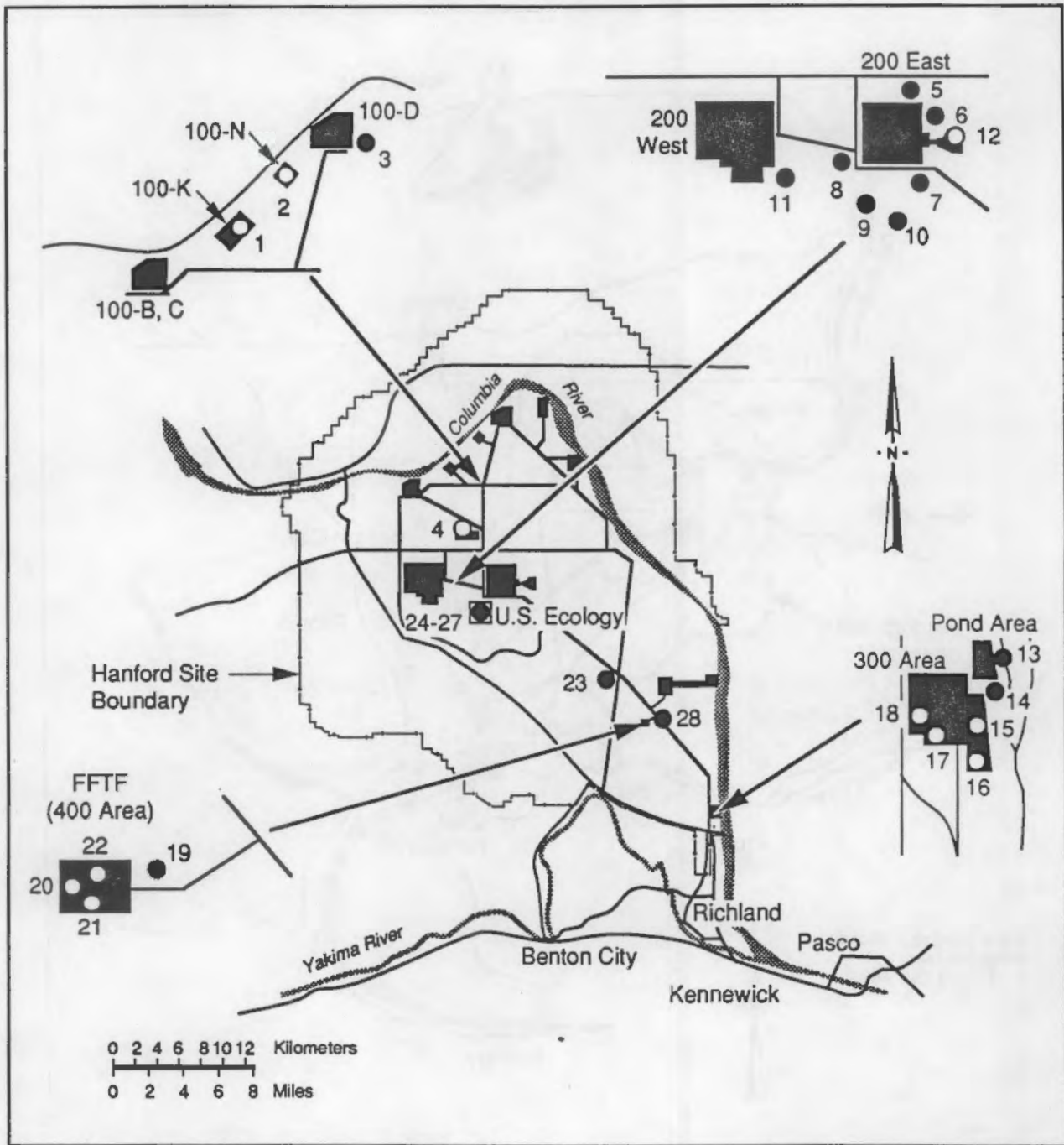
(a) Refer to Environmental Dosimeter Locations on the Hanford Site Map.

(b) Located at air sampling station.

(c) Washington State Department of Health TLDs also at these locations.

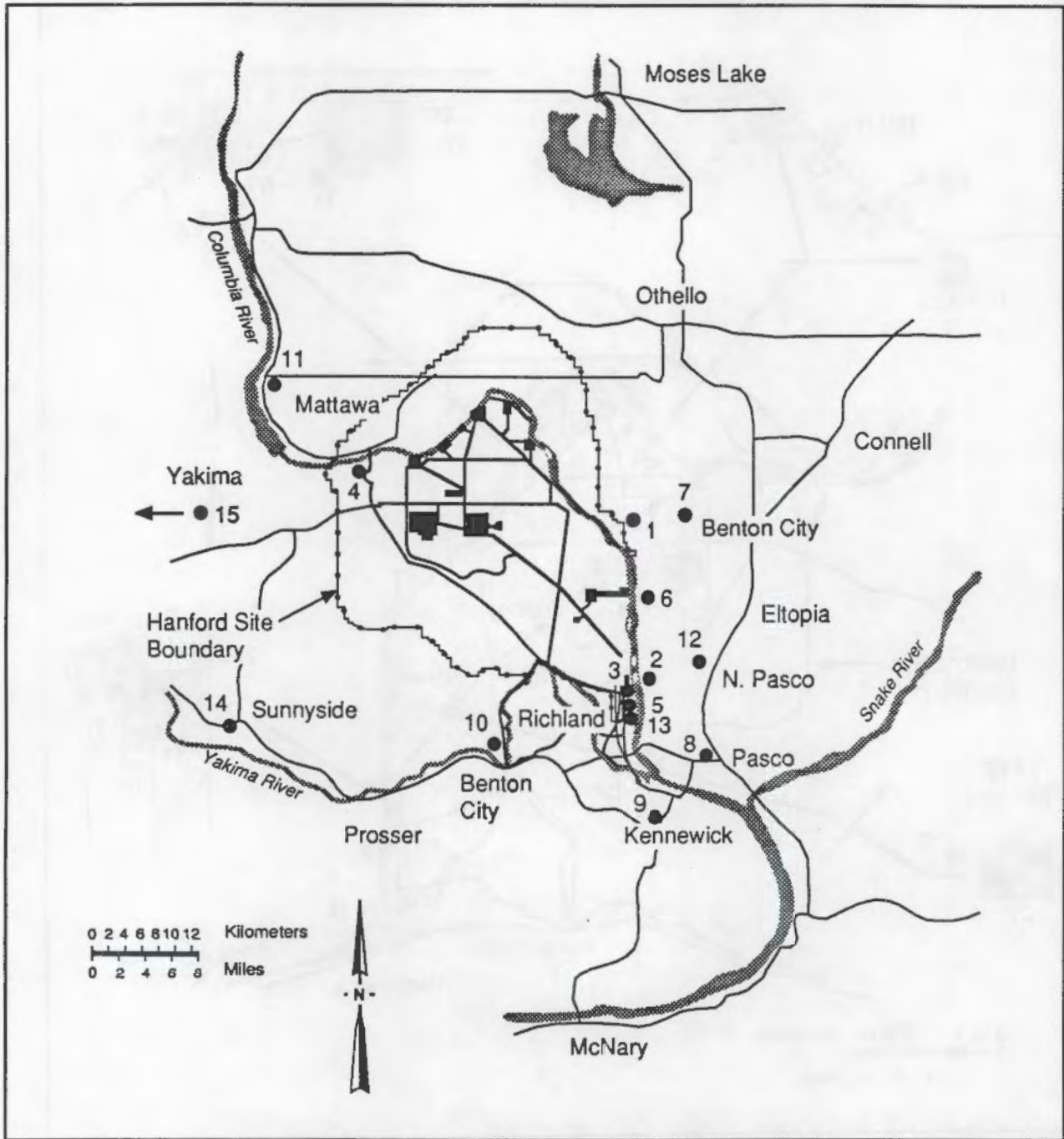
(d) Refer to Environmental Dosimeter Locations at the Site Perimeter and Nearby and Distant Communities Map.

(e) PIC data (in mR/H) collected monthly.



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Environmental Dosimeter Locations on the Hanford Site Map



S9108076.4

Environmental Dosimeter Locations at the Site Perimeter and Nearby and Distant Communities Map

2.1.2 Columbia River Shoreline Locations

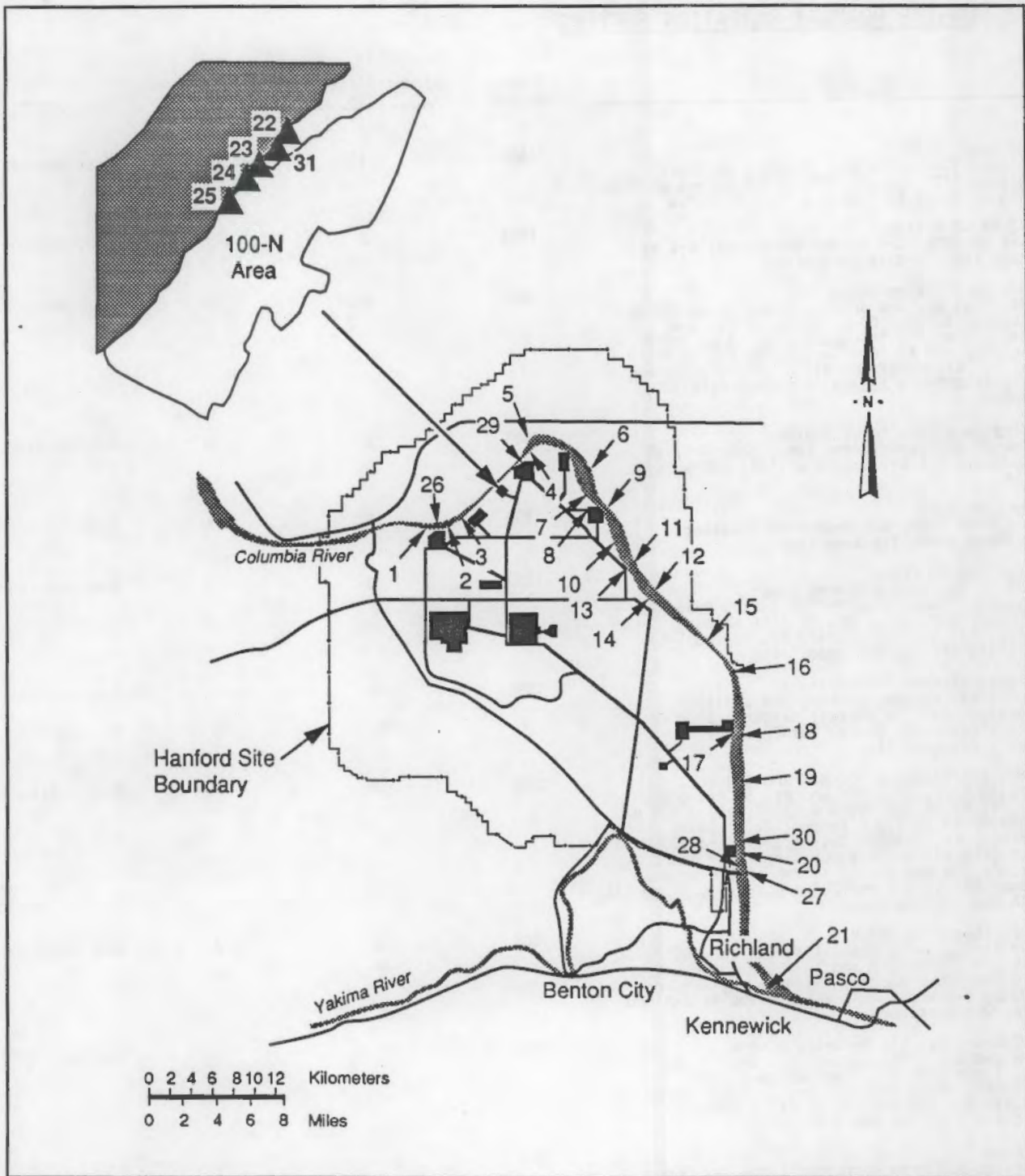
<u>Location^(a)</u>	<u>Location Number</u>	<u>Sample Number</u>	<u>Frequency</u>	<u>Measurement</u>
Coyote Rapids	26	1176	Q	Immersion Dose
Richland Pumphouse	27	1177	Q	Immersion Dose
100-N Spring	31	1221	Q	Immersion Dose
Above 100-B Area	1	1178	Q	Ambient Dose
Below 100-B Retention Basin	2	1179	Q	Ambient Dose
Above 100-K Boat Ramp	3	1180	Q	Ambient Dose
Below 100-N Outfall	25	1181	M	Ambient Dose
Below 100-N Stack	23	1182	M	Ambient Dose
Above Tip 100-N Berm	24	1183	M	Ambient Dose
100-N Trench Spring	22	1397	M	Ambient Dose
Below 100-D Area	4	1184	Q	Ambient Dose
Below Opposite 100-D	5	1185	Q	Ambient Dose
Lower End Locke Island	6	1186	Q	Ambient Dose
White Bluffs Ferry Landing	8	1187	Q	Ambient Dose
White Bluffs Slough	7	1188	Q	Ambient Dose
100-F Floodplain	10	1205	Q	Ambient Dose
Below 100-F	9	1206	Q	Ambient Dose
Hanford Slough	13	1207	Q	Ambient Dose
Hanford Powerline Crossing	11	1208	Q	Ambient Dose
Hanford Ferry Landing	12	1209	Q	Ambient Dose
Hanford RR Track	14	1210	Q	Ambient Dose
Savage Island Slough	15	1211	Q	Ambient Dose
Ringold Island	16	1212	Q	Ambient Dose
Powerline Crossing	17	1213	Q	Ambient Dose
N End Wooded Island	18	1214	Q	Ambient Dose
S End Wooded Island	19	1215	Q	Ambient Dose
Island Near 300 Area	20	1216	Q	Ambient Dose
Island DS Bateman Island	21	1217	Q	Ambient Dose
Port of Benton	28	1222	Q	Ambient Dose
Island Below 100-D	29	1223	Q	Ambient Dose
Island Above 300 Area	30	1224	Q	Ambient Dose

(a) Refer to Environmental Dosimeter Locations Along the Hanford Shoreline of the Columbia River Map.

2.2 COLUMBIA RIVER SHORELINE RADIATION SURVEYS

Location ^(a)	Location Number	Sample Number	Frequency	Measurement	Instrument
Above 100-K Boat Ramp	3	6132	Q	Exposure, Surface contamination	BICRON, GM
100-N Trench Springs	22	6129	M	Exposure, Surface contamination	BICRON, GM
Below Opposite 100-D	5	6241	Q	Exposure, Surface contamination	BICRON, GM
Lower End Locke Island	6	6123	Q	Exposure, Surface contamination	BICRON, GM
White Bluffs Ferry Landing	8	6121	Q	Exposure, Surface contamination	BICRON, GM
Below 100-F	9	6120	Q	Exposure, Surface contamination	BICRON, GM
Hanford Powerline Crossing	11	6118	Q	Exposure, Surface contamination	BICRON, GM
Hanford Ferry Landing	12	6117	Q	Exposure, Surface contamination	BICRON, GM
Hanford RR Track	14	6242	Q	Exposure, Surface contamination	BICRON, GM
Ringold Island	16	6114	Q	Exposure, Surface contamination	BICRON, GM
Powerline Crossing	17	6113	Q	Exposure, Surface contamination	BICRON, GM
Below 100-N Outfall	25	6483	M	Exposure, Surface contamination	BICRON, GM
Below 100-N Stack	23	6484	M	Exposure, Surface contamination	BICRON, GM
Above Tip 100-N Berm	24	6485	M	Exposure, Surface contamination	BICRON, GM
Island Below 100-D	29	6438	Q	Exposure, Surface contamination	BICRON, GM
Island Above 300 Area	30	6439	Q	Exposure, Surface contamination	BICRON, GM

(a) Refer to Environmental Dosimeter Locations Along the Hanford Shoreline of the Columbia River Map.



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Environmental Dosimeter Locations Along the Hanford
Shoreline of the Columbia River Map

2.3 ONSITE ROADWAY RADIATION SURVEYS

<u>Description^(a)</u>	<u>Sample Number</u>	<u>Identification Trip</u>	<u>Frequency</u>	<u>Instrument^(b)</u>
1100 Area to FFTF 4-S at 1100 Area; 4-S at No. 2 RR Track; 4-S at FFTF Access; FFTF; FFTF Access at 4-S; 4-S at No. 2 RR Track; 4-S at 300 Area	1800	1	M	Road Monitor
FFTF to US Ecology 4-S at FFTF; 4-S at Wye Barricade; 4-S at Army Loop; 4-S at US Ecology	1801	2	M	Road Monitor
100-N to 100-K to 200-W Rt. 1 at Rt. 4-N Junction; Rt. 4N at 100-N Access; 100-N; 100-N Access at Rt. 4-N; Rt. 4-N at Rt. 1 Junction; Rt. 1 at 100-K Access; 100-K; 100-K Access at Rt. 1; Rt. 1 at Rt. 4-N Junction; Rt. 4 at 11A Junction; 11A at 200-W N Access; N Access Gate 609; 200-W	1802	3	Q	Road Monitor
Yakima Barricade to US Ecology Yakima Barricade; Army Loop Road; 4-S; US Ecology; 4-S Rt. 3; 200-W; 11A; 200-W; 4-S; 11A	1803	4	Q	Road Monitor
Army Loop Road 4-S Army Loop; Old Powerline Crossing; S 200-W Area; 11A Army Loop	1804	5	A	Road Monitor
US Ecology to FFTF 4-S US Ecology; 4-S Army Loop; Wye Barricade; Rt. 10 FFTF Access Road; Prosser Barricade; Rt. 10 FFTF Access; FFTF; Rt. 10 FFTF Access; Rt. 10 and 4-S; 4-S and FFTF Access Road; FFTF	1805	6	A	Road Monitor
300-Area through 1100 Area 300 Area; Garage; Stores; Gas Station; Parking Lot; 1st Street; Kaiser's Shop Area; 1st Street; IT; George Washington Way - Stevens; IT	1806	7	A	Road Monitor
Yakima Barricade to 100-B/C and 200-N Yakima Barricade; 11A and Rt. 6; Rt. 6 and Rt. 1; Rt. 1 and 100-B Cut-off; Rt. 1 100-B Access; Rt. 1 100-K Access; Rt. 1 100-B Access; Rt. 1 100-B Cut-off; 4-N and 100-B Cut-off; Rt. 1 100-B Cut-off; Rt. 1 and Rt. 6; 11A and Rt. 6; 11A and 200-N Access Road; 200-N; 4-N and 200-N Access; 4-N and 11A; 11A and 200-N Access	1807	8	A	Road Monitor
Wye Barricade to 100-N Wye Barricade; 2-N and 11A; 2-N and 100-F; 2-N and 100-H; 2-N and 100-D; 2-N and 4-N; 4-N and 100-N Access; 4-N and 2-N; 2-N and 100-D; 2-N and 100-H; 2-N and 100-F; 2-N and 11A; Wye Barricade	1808	9	A	Road Monitor
Rt. 2-S and Rt. 11A to White Bluffs 2-N and 11A; 11A and 4-N; 4-N and Rt. 1; Rt. 1 and 2-N; Rt. 1 and White Bluffs Cut-off; White Bluffs Ferry Landing; White Bluffs Cut-off and Rt. 1; Rt. 1 and 4-N; 4-S and 11A; 11A and 2-S	1809	10	A	Road Monitor
300 Area Outside 300 Area Perimeter Fence; NW Corner of Pond Area; 4-S 300 Railroad Crossing; 3-N Gate Parking Lot; 4-S Cypress Street; Cypress Gate and 4-S; 3701 Badge House; N of 331 Bldg.; 3614-A Bldg.; Inside 300 Area Perimeter Fence	1810	11	Q	Road Monitor

2.3 ONSITE ROADWAY RADIATION SURVEYS (contd)

<u>Description^(a)</u>	<u>Sample Number</u>	<u>Identification Trip</u>	<u>Frequency</u>	<u>Instrument^(b)</u>
400 Area Visitor Center Access Road; Main Gate; NW Corner Parking Lot; NE Corner Parking Lot; Visitor Center; Old 4-E Monitoring Station; NE Corner Perimeter Fence; NW Corner Perimeter Fence; SW Corner Perimeter Fence; SE Corner Perimeter Fence; Main Gate	1811	12	Q	Road Monitor

(a) Refer to Road Survey Route Map.

(b) The instrument used for road monitoring consists of sodium iodide detectors with associated electronics which function as gross-gamma counters.

2.4 ONSITE RAILWAY RADIATION SURVEYS

<u>Description^(a)</u>	<u>Sample Number</u>	<u>Identification Trip</u>	<u>Frequency</u>	<u>Instrument^(b)</u>
1100 Area; Ruby Junction; 300 Area Gate; Geneva Junction; FFF; May Junction; Willa Junction; Pearl Junction; Ethel Junction; 200-E Gate; Susie Junction; 200-W Gate	1821	2	Q	Railway Monitor
May Junction; Ruth Junction; Ginger Junction; Betty Junction; Nancy Junction; 100-N Gate; Helen Junction; Audrey Junction; 100-K Gate; Susie Junction ^(c)	1822	3	Q	Railway Monitor
1100 Area; Van Giesen; Yakima River Bridge; Columbia Center ^(c)	1819	5	Q	Railway Monitor

(a) Refer to Railroad Survey Route Map.

(b) The instrument used for railway monitoring consists of sodium iodide detectors with associated electronics which function as gross-gamma counters.

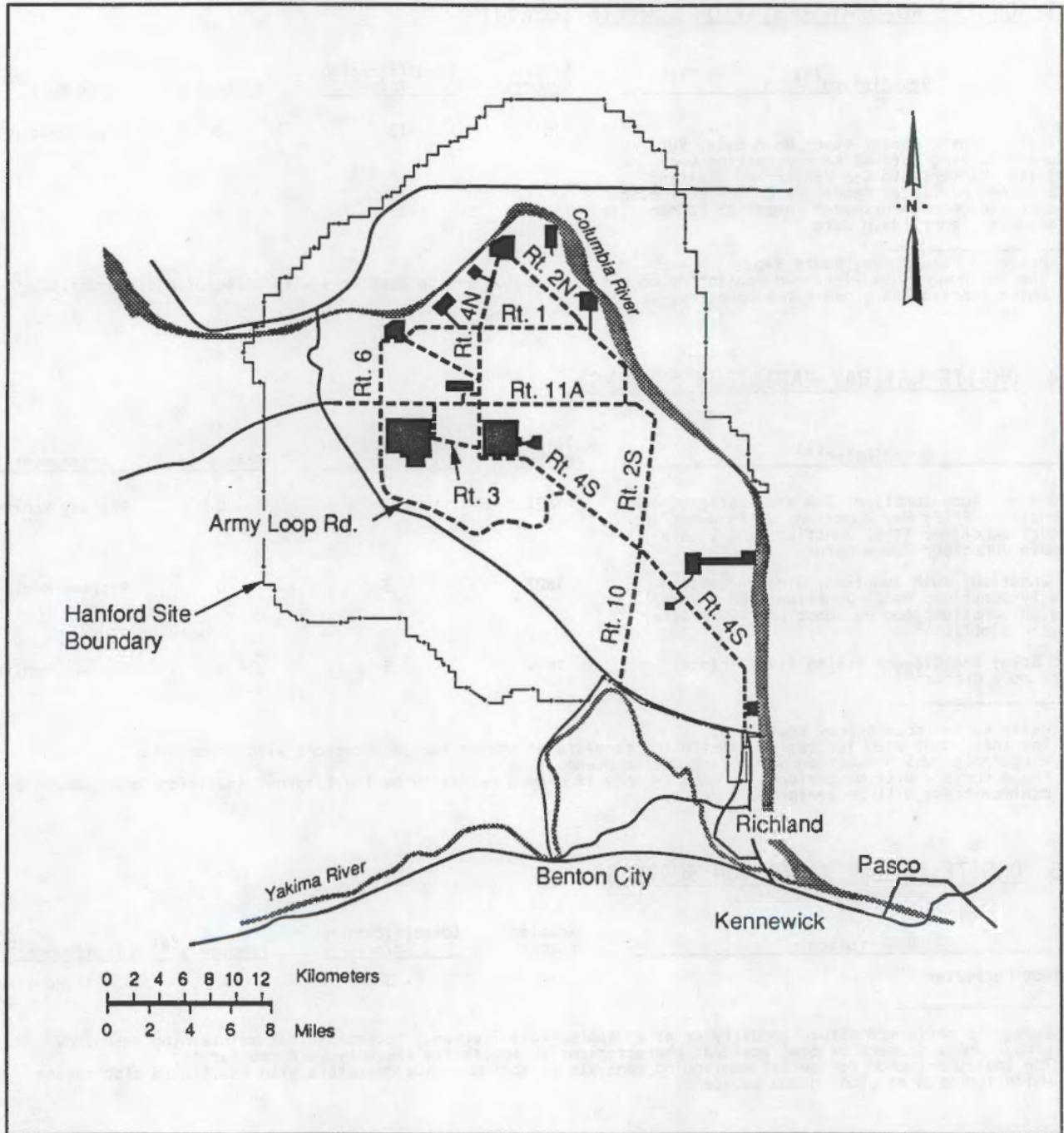
(c) These surveys will be performed quarterly only if deemed necessary by the External Radiation Task Leader; at a minimum these will be performed annually.

2.5 ONSITE AERIAL RADIATION SURVEYS

<u>Description</u>	<u>Sample Number</u>	<u>Identification Trip</u>	<u>Frequency^(a)</u>	<u>Instrument^(b)</u>
Project Perimeter	1820	3	A	Aerial Monitor

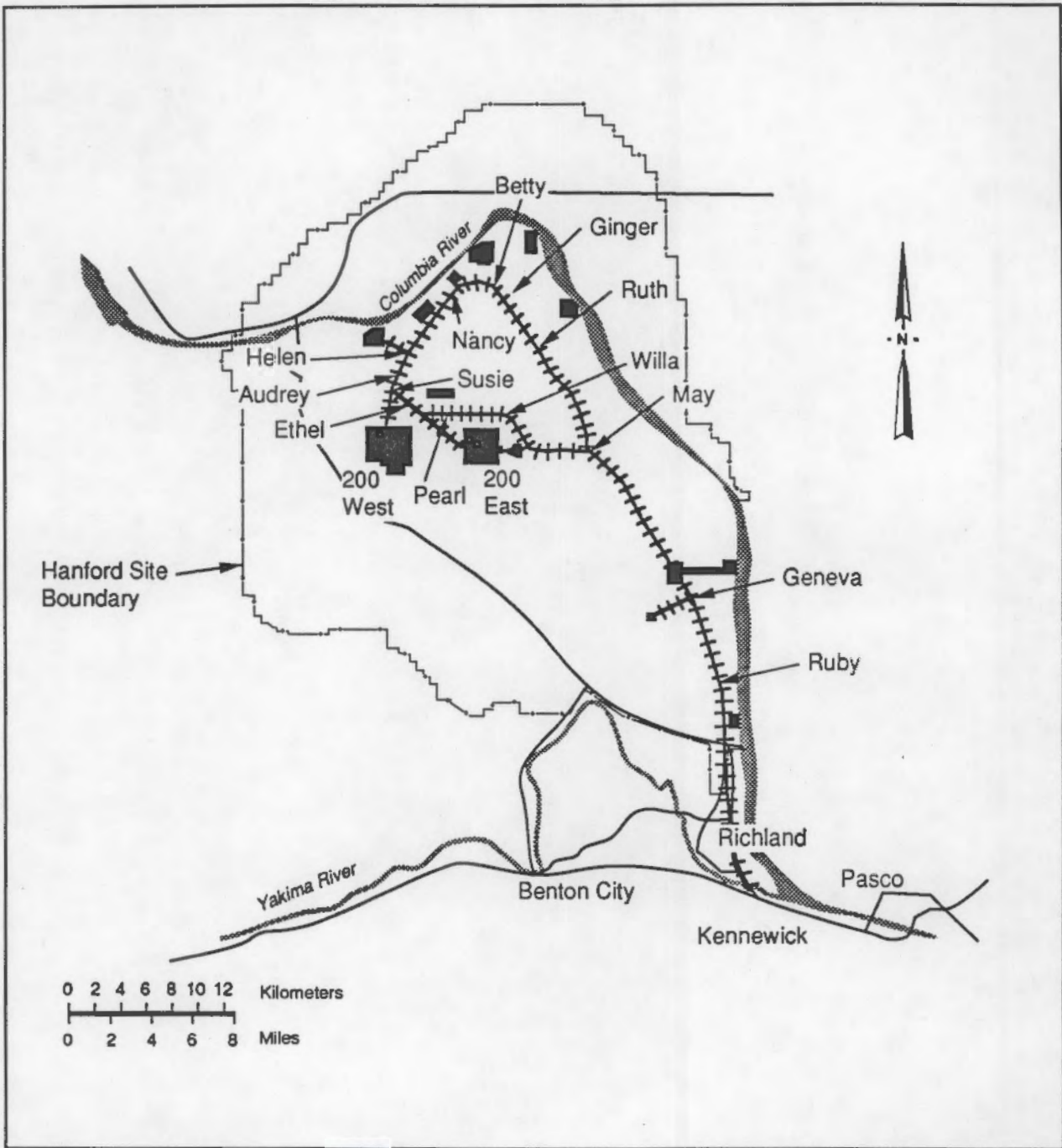
(a) Survey is performed either annually or at an appropriate frequency determined for maintaining emergency preparedness support or post-accident characterization (currently the only purposes for it).

(b) The instrument used for aerial monitoring consists of sodium iodide detectors with associated electronics which function as gross-gamma counters.



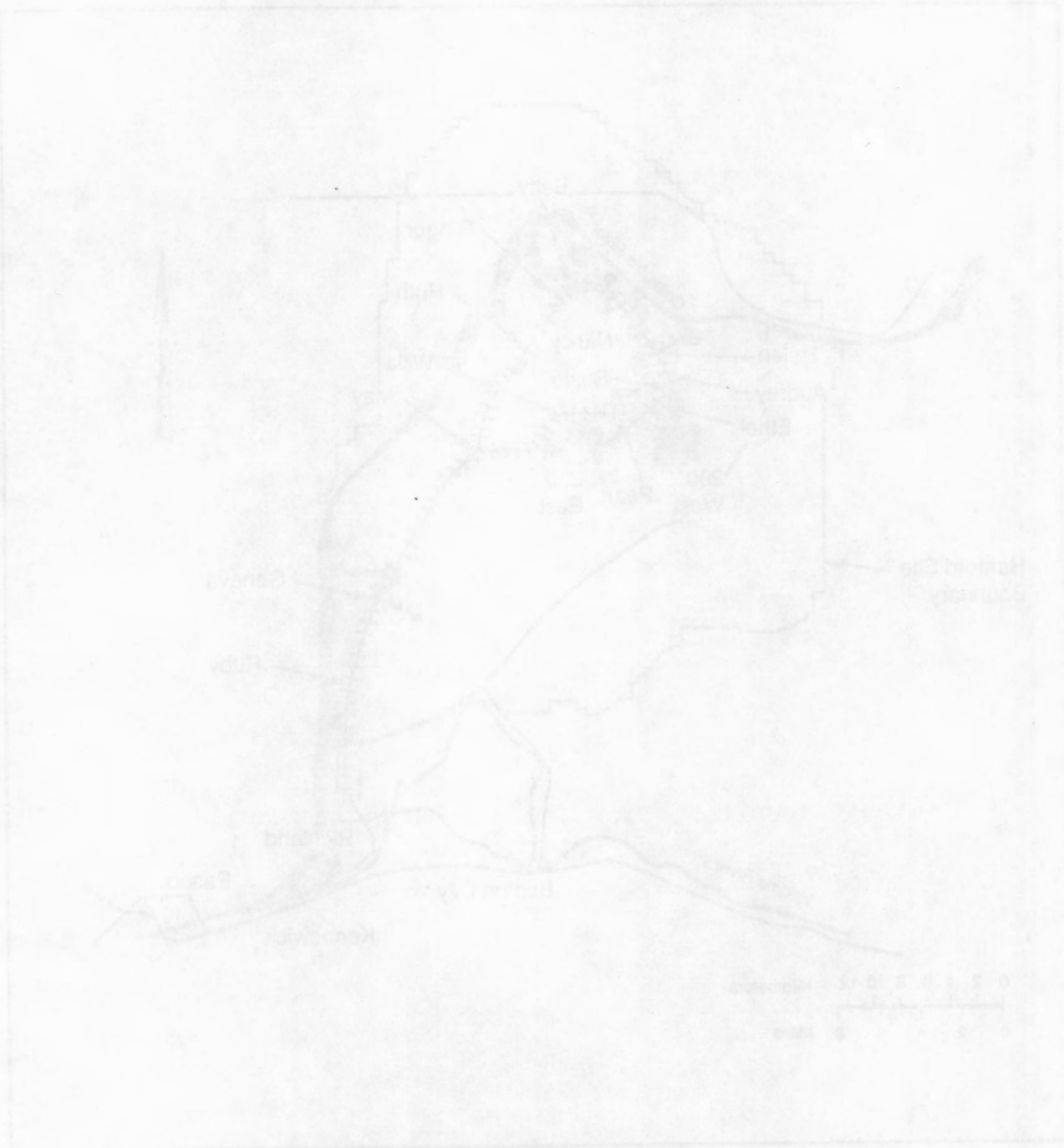
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Road Survey Route Map



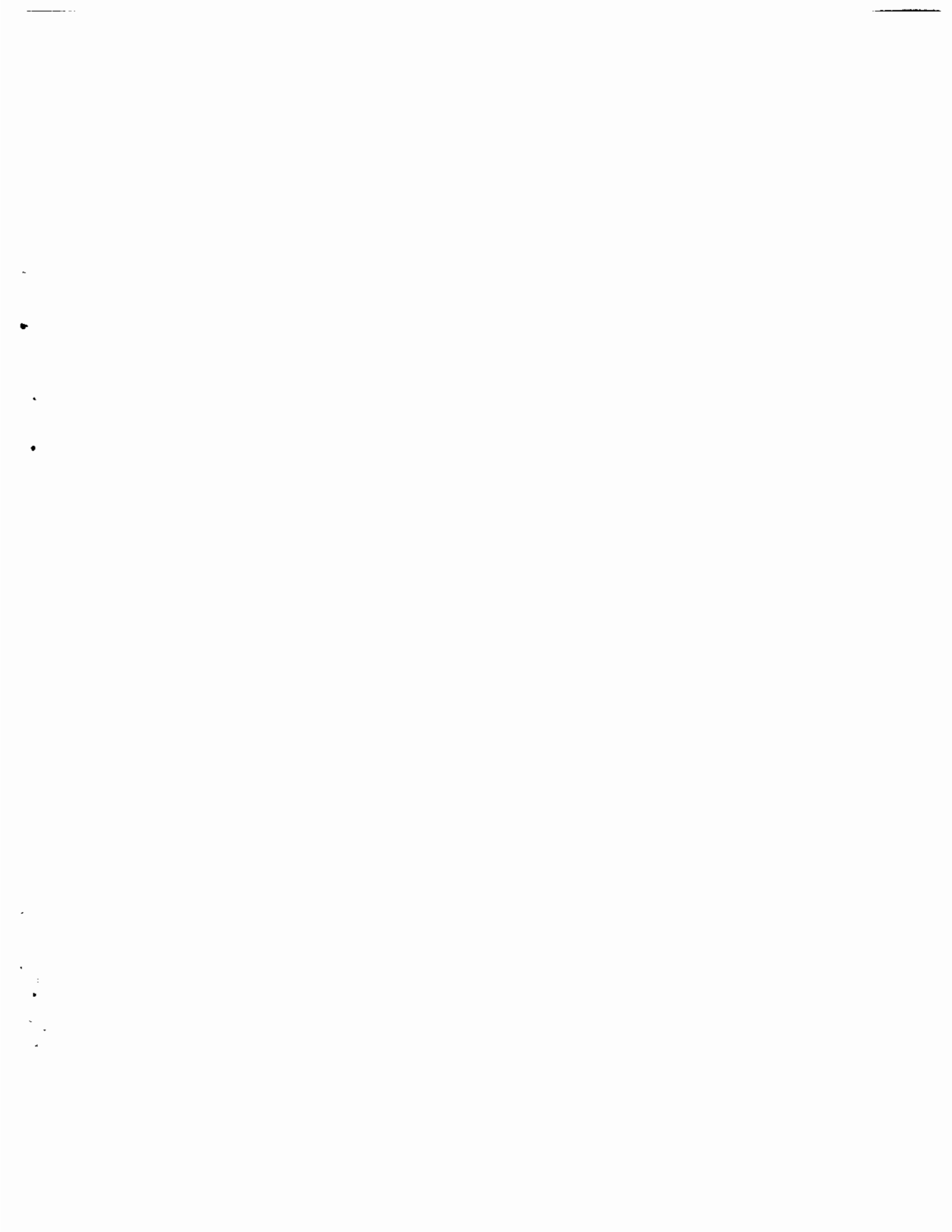
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Railroad Survey Route Map



Map of Survey Route

PART II. HANFORD GROUND-WATER MONITORING



1.0 100 AREA WELLS

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Atk	Anions (NO3-)	³ H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	⁹⁰ Sr	⁹⁹ Tc	Gamma Scan	Pu Am	¹²⁹ I	U-CHEM	Alpha	Beta	COMMENTS
1-B3-1				A	A	A	A			A								Source
1-B4-1				A	A	A	A			A								Source
1-B4-2				A	A	A	A			A	A	A			A			Source
1-B4-3				A	A	A	A			A								Source
1-B4-4				A	A	A	A			A								Source
1-B4-5				A	A	A	A			A								Source
1-B4-6				A	A	A	A			A								Source
1-B4-7				A	A	A	A			A								Source
1-B9-1				A	A	A	A			A								Source
1-D2-5				A	A	A	A			A								Source
1-D5-12				A	A	A	A			A								Source
1-D8-3				A	A	A	A			A								Source
1-F5-1				A	A	A	A			A	A	A			A			Source
1-F5-3				A	A	A	A			A	A	A			A			Source
1-F5-4				A	A	A	A			A	A	A			A			Source
1-F5-6				A	A	A	A			A	A	A			A			Source
1-F7-1				A	A	A	A			A	A	A			A			Source
1-F8-1				A	A	A	A			A	A	A			A			Source
1-F8-2				A	A	A	A			A	A	A			A			Source
1-H3-1		183-H		0	A		0			0					0			Source
1-H3-2A		183-H		0	A		0			0					0			Source
1-H3-2B		183-H		0	A		0			0					0			Source
1-H4-10		183-H		0	A		0			0					0			Source
1-H4-11		183-H		0	A		0			0					0			Source
1-H4-12A		183-H		0	A		0			0					0			Source
1-H4-12B		183-H		0	A		0			0					0			Source
1-H4-12C		183-H		0	A		0			0					0			Source
1-H4-13		183-H		0	A		0			0					0			Source
1-H4-14		183-H		0	A		0			0					0			Source
1-H4-15A		183-H		0	A		0			0					0			Source
1-H4-15B		183-H		0	A		0			0					0			Source
1-H4-16		183-H		0	A		0			0					0			Source
1-H4-17		183-H		0	A		0			0					0			Source
1-H4-18		183-H		0	A		0			0					0			Source
1-H4-2			SA	SA	SA	A	SA							A				CAS
1-H4-3		183-H		0	A		0			0					0			Source
1-H4-4		183-H		Q	Q		0			0		Q			Q	Q	Q	DOH
1-H4-5		183-H		0	A		0			0					0			Source
1-H4-6		183-H		0	A		0			0					0			Source
1-H4-7		183-H		0	A		0			0					0			Source
1-H4-8		183-H		0	A		0			0					0			Source
1-H4-9		183-H		0	A		0			A	0				0			Source
1-K-11		100-K		0	0		0	A		A		A						Source

1.0 100 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	3 H	GC-VDA	F-ICAP Metals	CN-	ABN ORG	90 Sr	99 Tc	Gamma Scan	Pu Am	129 I	U-CHEM	Alpha	Beta	COMMENTS
1-K-19		100-K		0	0		0	A		A		A						Source
1-K-20		100-K		0	0		0	A		A		A						Source
1-K-22		100-K		0	0		0	A		A		A						Source
1-K-27		100-K		0	0		0	A		A		0						Source
1-K-28		100-K		0	0		0	A		A		0						Source
1-K-29		100-K		0	0	A	0	A		A		0						Source
1-K-30		100-K		0	0		0	A		A		0						Source
1-N-14		1301-N		0	0		0			0		0			Q	Q	Q	DOH
1-N-16		1301-N		0	A		0			A								Source
1-N-17		1301-N		0	A		0			A								Source
1-N-18				A	A					A								Source
1-N-2		1301-N		0	0					0		0						Source
1-N-20				A	A					A								Source
1-N-21		1301-N		0	A					A								Source
1-N-22				A	A		A			A								Source
1-N-24				A	A					A								Source
1-N-25				A	A					A								Source
1-N-26				A	A					A								Source
1-N-27		1325-N		0	0					0								Source
1-N-28				A	A					A								Source
1-N-29		1325-N		0	0					0		A						Source
1-N-3		1301-N		0	0		0			0		Q			Q	0	0	DOH
1-N-31		1325-N		0	0					0								Source
1-N-32		1325-N		0	0					0		Q			Q	Q	Q	DOH
1-N-33		1325-N		0	0					0		A						Source
1-N-36		1325-N		0	0					0		A						Source
1-N-37				A	A					A								Source
1-N-39				A	A					A								Source
1-N-4		1301-N		0	0		0			0		0						Source
1-N-41		1325-N		0	0					0								Source
1-N-42				A	A					A								Source
1-N-5				A	A					A								Source
1-N-50				A	A					A								Source
1-N-51				A	A					A								Source
1-N-52				A	A					A								Source
1-N-54		1301-N		0	A					A								Source
1-N-55		1301-N		0	A					A								Source
1-N-56		1301-N		0	A					A								Source
1-N-57		1301-N		0	0					0								Source
1-N-58				A	A					A								Source
1-N-59		1324-N		0	A					A								Source
1-N-6				A	A					A								Source
1-N-60		1324-N		0	A					A								Source

1.0 100 AREA WELLS (contd)

<u>Well</u> <u>Number</u>	<u>CERCLA</u> <u>COSAMPLE</u>	<u>RCRA/OPS</u> <u>COSAMPLE</u>	<u>Alk</u>	<u>Anions</u> <u>(NO3-)</u>	<u>3</u> <u>H</u>	<u>GC-VOA</u>	<u>F-ICAP</u> <u>Metals</u>	<u>CN-</u>	<u>ABN</u> <u>ORG</u>	<u>90</u> <u>Sr</u>	<u>99</u> <u>Tc</u>	<u>Gamma</u> <u>Scan</u>	<u>Pu</u> <u>Am</u>	<u>129</u> <u>I</u>	<u>U-CHEM</u>	<u>Alpha</u>	<u>Beta</u>	<u>COMMENTS</u>
1-N-61				A	A					A								Source
1-N-66		1301-N		0	0					0								Source
1-N-67		1301-N		0	0					0								Source
1-N-69		1301-N		0	0					0								Source
1-N-71		1324-N		0	A					A								Source
1-N-72		1324-N		0	A					A								Source
1-N-73		1324-N		0	A					A								Source
1-N-70		1325-N		0	0					0		A		Q	Q	Q		DOH
1-N-74		1325-N		0	0					0								Source

2.0 200 AREA WELLS

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Atk	Anions (NO3-)	3H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	90Sr	99Tc	Gamma Scan	Pu Am	129I	U-CHEM	Alpha	Beta	COMMENTS
2-E13-14				A	A	A	A	A		A	A	A		A				Source
2-E13-5				A	A	A	A	A		A	A	A		A				Source
2-E17-1		A-10		0	0			A						A		0		Source
2-E17-12		PUREX		0	0			A			A	A		0				Source
2-E17-13		PUREX		0	0			A				A		A				Source
2-E17-14				A	A			A		A		A		A				Source
2-E17-15		A-29		0	0			A		A	A	A		A		A		Source
2-E17-16				A	A			A				A		A				Source
2-E17-17				A	A			A				A		A				Source
2-E17-18				A	A			A				A		A				Source
2-E17-19		A-10		0	0			A		A	A	A		A		0		Source
2-E17-2				A	A			A				A		A				Source
2-E17-20		A-10		0	0			A		A	A	A		A		0		Source
2-E17-5		A-36B		0	0			A			A	0		A		0		Source
2-E17-6		A-36B		0	0			A			A	0		A		0		Source
2-E17-8				A	A			A						A				Source
2-E17-9		A-36B		0	0			A		A	A	0		A		0		Source
2-E18-1		2101M		0	0			0						A				Source
2-E18-2		2101M		0	0			0						A				Source
2-E18-3		2101M		0	0			0						A				Source
2-E18-4		2101M		0	0			0						A				Source
2-E23-1				A	A			A						A				Source
2-E24-1				A	A			A		A				A				Source
2-E24-11				A	A			A						A				Source
2-E24-12				A	A			A		A	A			A				Source
2-E24-13		B-PLANT		0	0			A						A				Source
2-E24-16		A-10		0	0			A		A	A	A		A				Source
2-E24-17		A-10		0	0			A						A				Source
2-E24-18		A-10		0	0			A						A				Source
2-E24-19		SST		0	0			A						0				Source
2-E24-2		A-10		0	0			A			A			A				Source
2-E24-4				A	A			A			A			A				Source
2-E24-7				A	A			A						A				Source
2-E24-8				0	0			A						A				Source
2-E25-11		A-29		0	0			A						A				Source
2-E25-13				A	A			A						A				Source
2-E25-17				A	A			A					A	A				Source
2-E25-18		A-29		0	0			A						A				Source
2-E25-19		A-29		0	0			A						A				Source
2-E25-20		A-29		0	0			A						A				Source
2-E25-21		A-29		0	0			A			A			A				Source
2-E25-22		PUREX		0	0			A						A				Source
2-E25-23				A	A			A			A			A				Source

2.0 200 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Atk	Anions (NO3-)	3H	GC-VOA	F-ICAP Metals	CN-	ABN DRG	90Sr	99Tc	Gamma Scan	Pu Am	129I	U-CHEM	Alpha	Beta	COMMENTS
2-E25-26		A-29		0	0				A					A				Source
2-E25-28		A-29		0	0				A					A				Source
2-E25-29P		GROUT		0	0	0			A					A				Source
2-E25-3				A	A				A					A				Source
2-E25-30				A	A				A					A				Source
2-E25-31		GROUT		0	0				A					A				Source
2-E25-33		GROUT		0	0				A					A				Source
2-E25-36		A-10		0	0				A	A	A	A	A					Source
2-E25-37		GROUT		0	0	0	0							A				Source
2-E25-38		GROUT		0	0									A				Source
2-E25-42		A-29		0	0				A		A	A	A	A	A			Source
2-E25-43		A-29		0	0				A		A	A	A	A	A			Source
2-E25-6		PUREX		0	0				A					A				Source
2-E25-9		PUREX		0	0				A					A				Source
2-E26-4				A	A				A					A				Source
2-E26-8				SA	SA									SA				CAS
2-E26-9		LERF		0	0				A		A	A		A	A			Source
2-E26-10		LERF		0	0				A		A	A		A	A			Source
2-E26-11		LERF		0	0				A		A	A		A	A			Source
2-E26-12		A-29		0	0				A		A	A	A	A	A			Source
2-E26-13		A-29		0	0				A		A	A	A	A	A			Source
2-E27-10		LLBG		0	0				A		0	0		A	0			Source
2-E27-11		LLBG		0	0				A		0	0		A	0			Source
2-E27-16		B-63		0	0				A		A	0	A	A	0			Source
2-E27-9		LLBG		0	0				A		0	0		A	0			Source
2-E28-1				A	A	A			A		A	A	A	A	A			Source
2-E28-12				A	A				A					A				Source
2-E28-13				A	A				A					A				Source
2-E28-16				A	A				A					A				Source
2-E28-17				A	A				A					A				Source
2-E28-18		B-PLANT		0	0				A					A	0			Source
2-E28-19				A	A				A					A				Source
2-E28-21		B-PLANT		0	0				A	A		A	A	A	A			Source
2-E28-23		B-PLANT		0	0				A	A		A	A	A	A			Source
2-E28-24				A	A				A					A				Source
2-E28-25				A	A				A					A				Source
2-E28-26		LLBG		0	0				A	0	0	0	0		0			Source
2-E28-27		LLBG		0	0				A	0	0	0	0		0			Source
2-E28-5				A	A	A			A		A	A	A	A	A			Source
2-E28-7				A	A				A	A			A					Source
2-E28-9				A	A				A									Source
2-E32-1	200-BP-1			0	0				A									Source
2-F32-2		LLBG		0	0				0		0	0			0			Source

2.0 200 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	³ H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	⁹⁰ Sr	⁹⁹ Tc	Gamma Scan	Pu Am	¹²⁹ I	U-CHEM	Alpha	Beta	COMMENTS
2-E32-3		LLBG		0	0				0		0	0						Source
2-E32-4				A	A				A		A	A	A	A				Source
2-E32-5		LLBG		0	0				0		0	0	0					Source
2-E33-1	200-BP-1			0	0				0									Source
2-E33-10				A	A				A					A				Source
2-E33-12	200-BP-1		A	A	A	A			0					A				CAS
2-E33-24	200-BP-1			0	0				0		0							Source
2-E33-26	200-BP-1			A	A				A		A							Source
2-E33-36		B-63		0	0				A		A		A				0	Source
2-E33-37		B-63		0	0				A		A		A				0	Source
2-E33-40			SA	SA	SA									SA				CAS
2-E33-3	200-BP-1			A	A	A		A	A		A		A					Source
2-E33-5	200-BP-1			0	0				0		0	0				A		Source
2-E33-7	200-BP-1			A	A				A		A	A				A		Source
2-E34-2		LLBG		0	0				0		0	0						Source
2-E34-8		B-63		0	0				A		A	0						Source
2-E35-1		LERF LLBG		0	0				A									Source
2-W10-13		LLBG		0	0	0			0		0	0	0				0	Source
2-W10-14		LLBG		0	0	0			0		0	0	0				0	Source
2-W10-15		SST		0	0	A			0		0	0	0				0	Source
2-W10-16		SST		0	0	A			0		0	0	0				0	Source
2-W10-9		SST		0	0	A			0		0	0	0				0	Source
2-W11-14				A	A	A			A		A			A		A		Source
2-W11-18				A	A	A			A									Source
2-W11-23				A	A	A			A									Source
2-W12-1				A	A	A			A			A						Source
2-W13-5				A	A	A			A			A						Source
2-W14-2				A	A	A			A			A						Source
2-W15-15		LLBG		0	0	0			A		0	0	0				0	Source
2-W15-16		LLBG		0	0	0			A	A	0	0	0				0	Source
2-W15-17		LLBG		0	0	0			A	A	0	0	0				0	Source
2-W15-18		LLBG		0	0	0			A	A	0	0	0				0	Source
2-W15-19		LLBG		0	0	0			0		0	0	0				0	Source
2-W15-20		LLBG		0	0	0			0		0	0	0				0	Source
2-W15-24		LLBG		0	0	0			0		0	0	0				0	Source
2-W15-4				A	A	A			A		A	A	A				A	Source
2-W15-6				A	A	A			A		A		A				A	Source
2-W15-7				A	A	A			A				A					Source
2-W15-8		Z-PLANT		0	0	0			A	A			0				0	Source
2-W18-10				A	A	A			A	A								Source
2-W18-15				A	A	A			A	A	A						A	Source
2-W18-17		Z-PLANT		0	0	0			A	A			0				0	Source
2-W18-20		Z-PLANT		0	0	0			A				0				0	Source

2.0 200 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	³ H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	⁹⁰ Sr	⁹⁹ Tc	Gamma Scan	Pu Am	¹²⁹ I	U-CHEM	Alpha	Beta	COMMENTS
2-W18-21		LLBG		0	0	0		A			0		0		0			Source
2-W18-23		LLBG		0	0	0		A			0		0		0			Source
2-W18-24		LLBG		0	0	0		A	A		0		0		0			Source
2-W18-26		LLBG		0	0	0		A			0		0		0			Source
2-W18-29		Z-PLANT		0	0	0		A					0		0			Source
2-W18-4				A	A	A		A	A									Source
2-W18-5				A	A	A		A										Source
2-W19-1		U-PLANT		0	0	0		A			A			A	0			Source
2-W18-7				A	A	A		A				A						Source
2-W19-11				A	A	A		A			A				A			Source
2-W19-12				A	A	A		A			A				A			Source
2-W19-13				A	A	A		A			A			A	A			Source
2-W19-14				A	A	A		A			A			A	A			Source
2-W19-15				A	A	A		A			A			A	A			Source
2-W19-16				A	A	A		A			A			A	A			Source
2-W19-17				A	A	A		A			A			A	A			Source
2-W19-18				A	A	A		A			A			A	A			Source
2-W19-19		U-PLANT		0	0	0		A			A			A	0			Source
2-W19-2				A	A	A		A						A				Source
2-W19-20		U-PLANT		0	0	0		A			A			A	0			Source
2-W19-21		U-PLANT		0	0	0		A			A			A	0			Source
2-W19-23		U-PLANT		0	0	0		A			A			A	0			Source
2-W19-24		U-PLANT		0	0	0		A			A			A	0			Source
2-W19-25		U-PLANT		0	0	0		A			A			A	0			Source
2-W19-26		U-PLANT		0	0	0		A			A			A	0			Source
2-W19-27		U-PLANT		0	0	0		A			A			A	0			Source
2-W19-28		U-PLANT		0	0	0		A			0			A	0			Source
2-W19-29		U-PLANT		0	0	0		A			A			A	A			Source
2-W19-3				A	A	A		A			A			A	A			Source
2-W19-30				A	A	A		A			A			A	A			Source
2-W19-31		SST		0	0	A		0			0				0			Source
2-W19-32		SST		0	0	A		0			0				0			Source
2-W21-1				A	A	A		A						A				Source
2-W22-10				A	A	A				A								Source
2-W22-12				A	A	A								A				Source
2-W22-2				A	A	A						A	A					Source
2-W22-20				Q	Q	A								A	Q	Q	Q	DOH
2-W22-21				A	A	A					A			A	A			Source
2-W22-22				A	A	A								A				Source
2-W22-39		SST		0	0	0		0			0				0			Source
2-W22-40		U-12		0	0	0		A			0				0			Source
2-W22-41		U-12		0	0	0		A			0				0			Source
2-W22-42		U-12		0	0	0		A			0				0			Source

2.0 200 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	³ H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	⁹⁰ Sr	⁹⁹ Tc	Gamma Scan	Pu Am	¹²⁹ I	U-CHEM	Alpha	Beta	COMMENTS
2-W22-43		U-12		0	0	0		A			0							Source
2-W22-9				A	A	A		A										Source
2-W23-10				A	A	A		A			A				A			Source
2-W23-13		SST		0	0	0		0			0				0			Source
2-W23-14		SST		0	0	0		0			0				0			Source
2-W23-2				A	A	A		A			A				A			Source
2-W23-3				A	A	A		A			A				A			Source
2-W23-4				A	A	A		A			A				A			Source
2-W23-7				A	A	A		A			A				A			Source
2-W23-9				A	A	A		A			A				A			Source
2-W26-7		S-10		0	0	0		A			A				A			Source
2-W26-8		S-10		0	0	0		A			A				A			Source
2-W26-9		S-10		0	0	0		A			A				A			Source
2-W26-10		S-10		0	0	0		A			A				A			Source
2-W26-11		S-10		0	0	0		A			A				A			Source
2-W26-12		S-10		0	0	0		A			A				A			Source
2-W27-1		222-S		0	0	0		A										Source
2-W28-23		OPER		0	0	A		A				A						Source
2-W28-24		OPER		0	0	A		A				A						Source
2-W28-25				A	A	A		A				A						Source
2-W6-2		LLBG		0	0	0		A										Source
2-W7-4		LLBG		0	0	0		A										Source
2-W7-5		LLBG		0	0	0		A										Source
2-W7-6		LLBG		0	0	0		A										Source
2-W7-7		LLBG		0	0	0		A										Source
2-W7-8		LLBG		0	0	0		A										Source
2-W8-1		LLBG		0	0	0		A										Source
2-W9-1		LLBG		0	0	0		A										Source

3.0 300 AREA WELLS

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	3H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	90Sr	99Tc	Gamma Scan	Pu Am	129I	U-CHEM	Alpha	Beta	COMMENTS
3-1-1*	300FF5			0	0	0												Source
3-1-10*	300FF5	300A		0	0	0									0			Source
3-1-10B	300FF5		A	A	A	A	A				A				A			Source
3-1-11*	300FF5	300A		0	0	0									0			Source
3-1-12*	300FF5	300A		0	0	0									0			Source
3-1-13B	300FF5		A	A	A	A	A				A				A			Source
3-1-14*	300FF5	300A		0	0	0									0			Source
3-1-14B	300FF5		A	A	A	A	A				A	A			A			Source
3-1-15*	300FF5	300A		0	0	0									0			Source
3-1-16A	300FF5	300A		0	0	0									0			Source
3-1-16B	300FF5	300A		0	0	0									0			Source
3-1-17A	300FF5	300A		Q	Q	0						Q			Q	Q	Q	OOH
3-1-17C	300FF5			0	0	0									0			Source
3-1-18A	300FF5	300A		0	0	0									0			Source
3-1-18B	300FF5			0	0	0									0			Source
3-1-18C	300FF5			0	0	0									0			Source
3-1-19*	300FF5			0	0	0									0			Source
3-1-2*	300FF5														0			Source
3-1-3*	300FF5														0			Source
3-1-4*	300FF5														0			Source
3-1-6*	300FF5														0			Source
3-1-7*	300FF5	300A		0	0	0									0			Source
3-1-7B	300FF5			A	A	A	A				A	A			A			Source
3-1-8*	300FF5			0	0	0									0			Source
3-1-9*	300FF5			0	0	0									0			Source
3-2-1*	300FF5	300A		0	0	0									0			Source
3-2-2*	300FF5			0	0	0									0			Source
3-2-3*	300FF5			0	0	0									0			Source
3-3-1*	300FF5			0	0	0									0			Source
3-3-10*	300FF5	300A		0	0	0									0			Source
3-3-11*	300FF5			0	0	0									0			Source
3-3-12*	300FF5			0	0	0									0			Source
3-3-2*	300FF5			0	0	0									0			Source
3-3-3*	300FF5			0	0	0									0			Source
3-3-6*	300FF5			0	0	0									0			Source
3-3-7*	300FF5	300A		0	0	0						0			0			Source
3-8-3B	300FF5		A	A	A	A	A				A	A			A			Source
3-3-9*	300FF5	300A		0	0	0									0			Source
3-4-1*	300FF5	300A		0	0	0									0			Source
3-4-10*	300FF5														0			Source
3-4-7*	300FF5	300A		0	0	0									0			Source
3-4-9*	300FF5														0			Source
3-5-1*	300FF5														0			Source
3-8-1*	300FF5	300A		0	0	0									0			Source

4.0 400 AREA WELLS

<u>Well Number</u>	<u>CERCLA COSAMPLE</u>	<u>RCRA/OPS COSAMPLE</u>	<u>Alk</u>	<u>Anions (NO3-)</u>	<u>3 H</u>	<u>GC-VOA</u>	<u>F-ICAP Metals</u>	<u>CN-</u>	<u>ABN ORG</u>	<u>90 Sr</u>	<u>99 Tc</u>	<u>Gamma Scan</u>	<u>Pu Am</u>	<u>129 I</u>	<u>U-CHEM</u>	<u>Alpha</u>	<u>Beta</u>	<u>COMMENTS</u>
4-S0-7				12	12													Drinking Water Supply
4-S0-8				12	12													Drinking Water Supply
4-S1-8J				12	12													Drinking Water Supply

5.0 600 AREA WELLS

Well Number	CERCLA COSAMPLE	RCRA/DPS COSAMPLE	Alk	Anions (NO3-)	3H	GC-VDA	F-ICAP Metals	CN-	ABN ORG	90Sr	99Tc	Gamma Scan	Pu Am	129I	U-CHEM	Alpha	Beta	COMMENTS
6-1B	300FF5		A	A	A	A	A				A							Source
6-1C	300FF5		A	A	A	A	A				A							Source
6-2B	300FF5		A	A	A	A	A				A							Source
6-2C	300FF5		A	A	A	A	A				A							Source
6-3B	300FF5		A	A	A	A	A				A							Source
6-3C	300FF5		A	A	A	A	A				A							Source
6-4B	300FF5		A	A	A	A	A				A							Source
6-4C	300FF5		A	A	A	A	A				A							Source
6-7B	300FF5		A	A	A	A	A				A							Source
6-7C	300FF5		A	A	A	A	A				A							Source
6-8B	300FF5		A	A	A	A	A				A							Source
6-8C	300FF5		A	A	A	A	A				A							Source
6-1-18*		400A		0	0													Drinking Water Supply
6-10-54*				A	A													Background
6-10-E12				A	A	A												Boundary
6-13-1C			SA	SA	SA	A		SA						SA				CAS
6-14-38*			A	A	A	A		A										Background
6-15-E3A			A	A	A	A		A										3D-Char, Screen
6-17-5*				Q	Q							Q			Q	Q	Q	DOH
6-17-70*				A	A													Boundary
6-19-43*			A	A	A	A		A										Background
6-19-88*				A	A													Boundary
6-S19-E13				SA	SA	SA		SA										Plume
6-2-3*		400A		0	0													Drinking Water Supply
6-2-7*		400A		0	0													Drinking Water Supply
6-20-20*				SA	SA													Plume
6-20-E12				A	A	A		A										Boundary
6-20-E12P				A	A	A		A										Boundary
6-20-E5A				A	A													Plume
6-20-E5Q			SA	SA	SA	A		SA						SA				CAS
6-21-6*			SA	SA	SA	A		SA								SA	SA	3D-Char, Screen
6-22-23*			A	A	A	A		A								A	A	3D-Char, Screen
6-22-70*			SA	SA	SA	A		SA						SA				CAS
6-23-34*		SWLF		0	0	0												Plume
6-24-1P			SA	SA	SA	A		SA						SA				CAS
6-24-33*		SWLF		Q	Q	0						Q			Q	Q	Q	DOH
6-24-34A		SWLF		0	0	0												Plume
6-24-34B		SWLF		0	0	0												Plume
6-24-34C		SWLF		0	0	0												Plume
6-24-35*		SWLF		0	0	0												Plume
6-25-34A		NRDW		0	0	0												Plume
6-25-34B		NROW		0	0	0												Plume
6-25-34C		SWLF		0	0	0												Plume

5.0 600 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	3H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	90Sr	99Tc	Gamma Scan	Pu Am	129I	U-CHEM	Alpha	Beta	COMMENTS
6-26-15A				SA	SA									SA				Plume
6-26-33*		NRDW		0	0	0												Plume
6-26-34*		NRDW		0	0	0												Plume
6-26-35A		NRDW		0	0	0												Plume
6-27-8*				SA	SA									SA				Plume
6-28-40*				A	A													Plume
6-29-4*				SA	SA													Plume
6-29-78*				A	A													Plume
6-3-45*				A	A							A						Plume
6-31-31				A	A							A		A	A	A	A	DOH
6-31-31P				A	A	A												Plume
6-32-43				Q	Q							Q			Q	Q	Q	DOH
6-32-62				SA	SA	A	SA	SA			SA	SA			SA			Plume
6-32-70B				SA	SA									SA				Plume
6-32-72				A	A										A			Plume
6-32-77			SA	SA	SA	A	SA				SA	A			SA	A	A	DOH
6-33-14			A	A	A	A	A									A	A	3D-Char, Screen
6-33-56				SA	SA	A	SA	A			SA	SA			SA			Source
6-33-6			A	A	A	A	A									A	A	3D-Char, Screen
6-33-42				SA	SA									SA				Plume
6-34-41B				A	A													Plume
6-34-42				A	A													Plume
6-34-51				SA	SA	A	SA	A			SA	SA			SA			Source
6-35-66				SA	SA									SA				Plume
6-35-70				Q	Q						SA	Q		SA	Q	Q	Q	DOH
6-35-78A				SA	SA						SA				SA			Plume
6-35-9				SA	SA													Plume
6-36-46Q				A	A													Plume
6-36-61A				SA	SA													Plume
6-36-61B				A	A													Plume
6-36-93				A	A													Boundary
6-37-43				A	A													Plume
6-37-82A				SA	SA													Plume
6-37-E4				A	A	A	A				A	A						Boundary
6-38-15				SA	SA													Plume
6-38-65				Q	Q							Q			Q	Q	Q	DOH
6-38-70				SA	SA	SA		SA			SA				SA			Plume
6-39-0				SA	SA	A	A											Boundary
6-39-39				SA	SA													Plume
6-39-79				A	A	A												Plume
6-40-1				Q	Q	A	A				A	Q			Q	Q	Q	DOH
6-40-20			A	A	A	A	A									A	A	3D-Char, Screen
6-40-33A				Q	Q							Q			Q	Q	Q	DOH

5.0 600 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	3_H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	90_Sr	99_Tc	Gamma Scan	Pu Am	129_I	U-CHEM	Alpha	Beta	COMMENTS
6-40-39		B-POND		0	0													Source
6-40-62				SA	SA													Plume
6-41-1				Q	Q							Q			Q	Q	Q	DOH
6-41-23				SA	SA									SA				Plume
6-41-40		B-POND		0	0													Source
6-42-12A				SA	SA													Plume
6-42-2				A	A	A	A				A							Boundary
6-42-E9B			SA	SA	SA	A	SA				SA	SA		SA	SA	SA	SA	DOH, Offsite
6-42-E9AP			SA	SA	SA	A	SA			SA	SA	SA			SA			SAV I.
6-42-40C			SA	SA	SA	A	SA							SA				CAS
6-42-42B		B-POND		0	0													Source
6-43-3				A	A	A	A				A							Boundary
6-43-9			A	A	A	A	A									A	A	3D-Char, Screen
6-44-4				A	A	A	A				A							Source
6-44-64				SA	SA			SA				SA						Plume
6-45-2				A	A	A	A				A							Boundary
6-45-42				A	A													Source
6-45-69A				A	A													Plume
6-46-21B				A	A													Plume
6-46-4				A	A	A	A				A							Boundary
6-47-35A				A	A													Plume
6-47-46A				A	A													Plume
6-47-5				A	A	A	A				A							Boundary
6-47-50	200-BP-1		A	A	A	A	A							A				CAS
6-47-60	200-BP-1			0	0													Source
6-48-18				A	A	A	A				A							Boundary
6-48-7				A	A	A	A				A							DOU
6-48-71				SA	SA													Plume
6-49-100C				SA	SA	A	A					SA			SA	SA	SA	DOH
6-49-28				A	A													Plume
6-49-55A	200-BP-1			SA	SA			A			A	A						Source
6-49-55B	200-BP-1		A	A	A	A	A							A				CAS
6-49-57				SA	SA			SA				SA		SA				Plume
6-49-57B			SA	SA	SA	A	SA							SA				CAS
6-49-79				SA	SA													Plume
6-49-E13				A	A	A	A				A	A						Plume
6-50-53				A	A		A	A			A	A			A			Source
6-50-53B			SA	SA	SA	A	SA							SA				CAS
6-50-85				SA	SA													Plume
6-51-63				A	A						A							Source
6-51-75			A	SA	SA	SA	SA											Background
6-52-19				A	A													Plume
6-53-47A				A	A													Source

5.0 600 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	3H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	90Sr	99Tc	Gamma Scan	Pu Am	129I	U-CHEM	Alpha	Beta	COMMENTS
6-53-47B		GM-POND		0	0					0								Source
6-53-48A				A	A													Source
6-53-48B		GM-POND		0	0					0								Source
6-53-50			SA	SA	SA	A	SA							SA				Source
6-54-34				A	A													Plume
6-54-48				A	A													Source
6-54-49		GM-POND		0	0													Source
6-54-57	200-BP-1		A	A	A	A	A							A				CAS
6-55-40				A	A													Plume
6-55-50C		GM-POND		0	0													Source
6-55-76			A	A	A	A	A											Background
6-55-89				0	0													Background
6-57-29A				A	A													Plume
6-58-24				A	A						A							Plume
6-59-58				A	A													Plume
6-60-57				SA	SA													Plume
6-61-37				A	A													Plume
6-61-41				A	A													Plume
6-61-62				SA	SA													Plume
6-61-66				A	A													Plume
6-62-31				SA	SA													Plume
6-63-25A				SA	SA	SA	SA				A							Boundary
6-63-55				SA	SA													Plume
6-63-58				SA	SA													Plume
6-63-90				A	A													Boundary
6-64-27				SA	SA													Plume
6-64-62				SA	SA													Plume
6-65-59A				SA	SA													Plume
6-65-72				SA	SA				SA				SA					Plume
6-66-23				SA	SA	SA	SA											Boundary
6-66-38				A	A													Plume
6-66-39				A	A													Plume
6-66-58				SA	SA													Plume
6-66-64				SA	SA													Plume
6-67-51				A	A													Plume
6-67-86			A	SA	SA	SA	SA											Background
6-71-30				A	A	A	A											Boundary
6-71-77				SA	SA	SA	SA											Source
6-72-73				A	A	A	A											Boundary
6-72-88				SA	SA	SA	SA											Boundary
6-73-61				SA	SA													Plume
6-74-44				A	A													Plume
6-77-36				SA	SA	SA												Plume

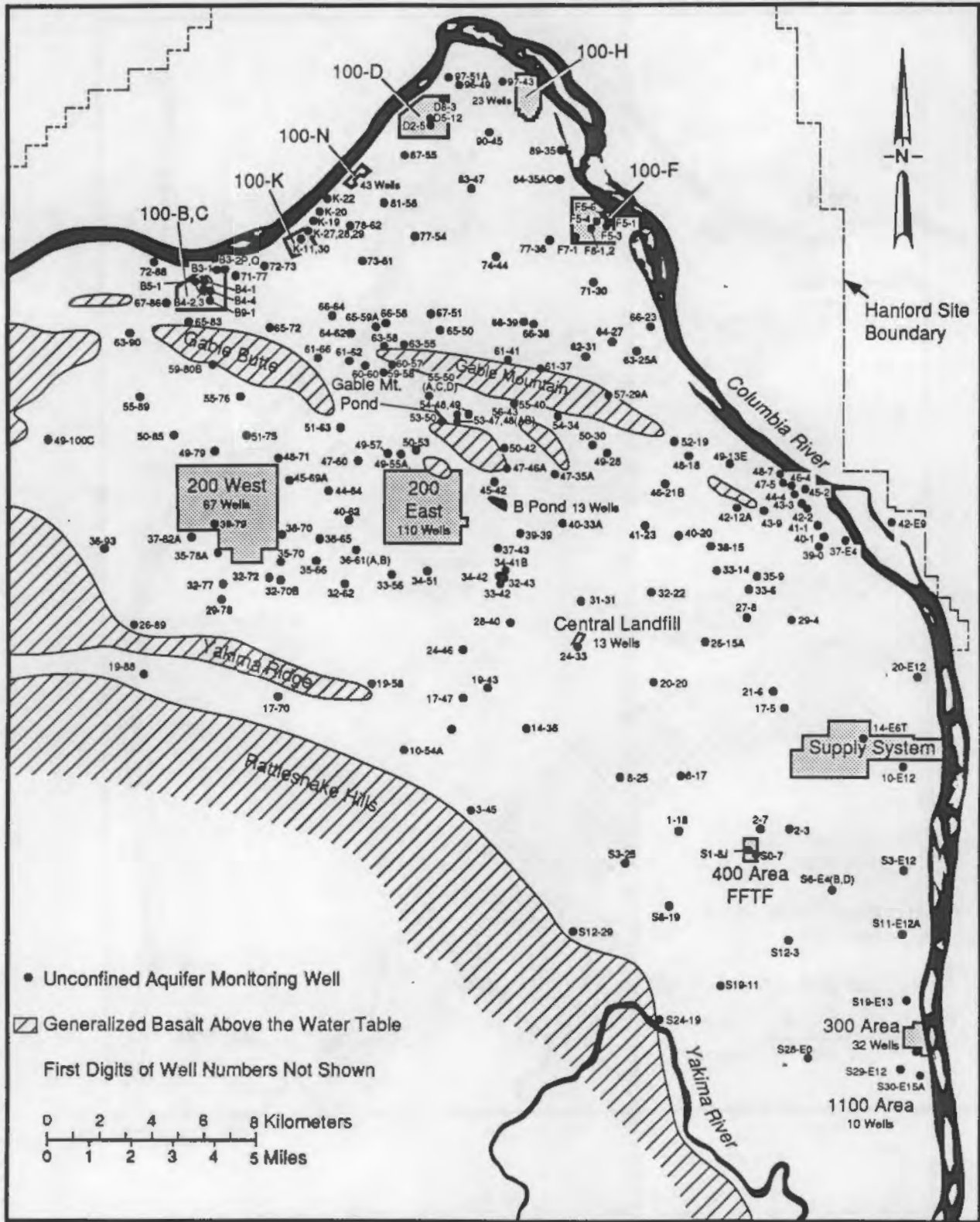
5.0 600 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	3H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	90Sr	99Tc	Gamma Scan	Pu Am	129I	U-CHEM	Alpha	Beta	COMMENTS
6-77-54				A	A													Plume
6-78-62				SA	SA		SA											Plume
6-8-17*				SA	SA													Plume
6-8-25*				SA	SA													Plume
6-81-5B		1324-N		0	SA													Plume
6-83-47				A	A	A	A											Plume
6-84-35A				A	A	A	A				A							Boundary
6-87-55				SA	SA	SA	SA				A							Plume
6-89-35				A	A	A	A				A							Boundary
6-90-45				SA	SA													Plume
6-96-49				SA	SA		SA											Plume
6-97-43				SA	SA	SA	SA				A							Boundary
6-97-51A				SA	SA	SA	SA				A							Boundary
6-S11-E12A				SA	SA													Boundary
6-S12-29				A	A													Boundary
6-S12-3				A	A													Plume
6-S19-11				Q	Q							Q			Q	Q	Q	DOH
6-S19-E13				SA	SA	A						SA			SA	SA	SA	DOH
6-S27-E14				A	A	A	A				A	A						Boundary
6-S28-E0				A	A													Drinking Water Supply
6-S29-E12				A	A	A	A				A							Boundary
6-S3-25			A	A	A	A	A											Plume
6-S3-E12				SA	SA													Boundary
6-S30-E10A	1100 EM-1			SA	SA	SA	SA				A				SA			Source
6-S30-E10B	1100 EM-1			SA	SA	SA	SA				A				SA			Source
6-S30-E15A				A	A	A	A				A	A			A	A	A	DOH
6-S31-1			A	A	A	A	A											Boundary
6-S31-E10A	1100 EM-1			SA	SA	SA	SA				A				SA			Source
6-S31-E10B	1100 EM-1			SA	SA	SA	SA				A				SA			Source
6-S31-E10C	1100 EM-1			SA	SA	SA	SA				A				SA			Source
6-S31-E10D	1100 EM-1			SA	SA	SA	SA				A				SA			Source
6-S31-E13				SA	SA	SA	SA											Boundary
6-S31-E8	1100 EM-1			SA	SA	SA	SA				A				SA			Source
6-S32-F13A				SA	SA	SA	SA											Boundary
6-S32-E13B				SA	SA	SA	SA											Boundary
6-S32-E8	1100 EM-1			SA	SA	SA	SA				A				SA			Source
6-S34-E10	1100 EM-1			SA	SA	SA	SA				A				SA			Source
6-S36-E12B				SA	SA	SA	SA											Boundary
6-S36-E13A				SA	SA	SA	SA											Boundary
6-S36-E13B				SA	SA	SA	SA											Boundary
6-S37-E11				SA	SA	SA	SA											Boundary
6-S37-E14				SA	SA	SA	SA											Drinking Water Supply
6-S38-E11				SA	SA	SA	SA											Source

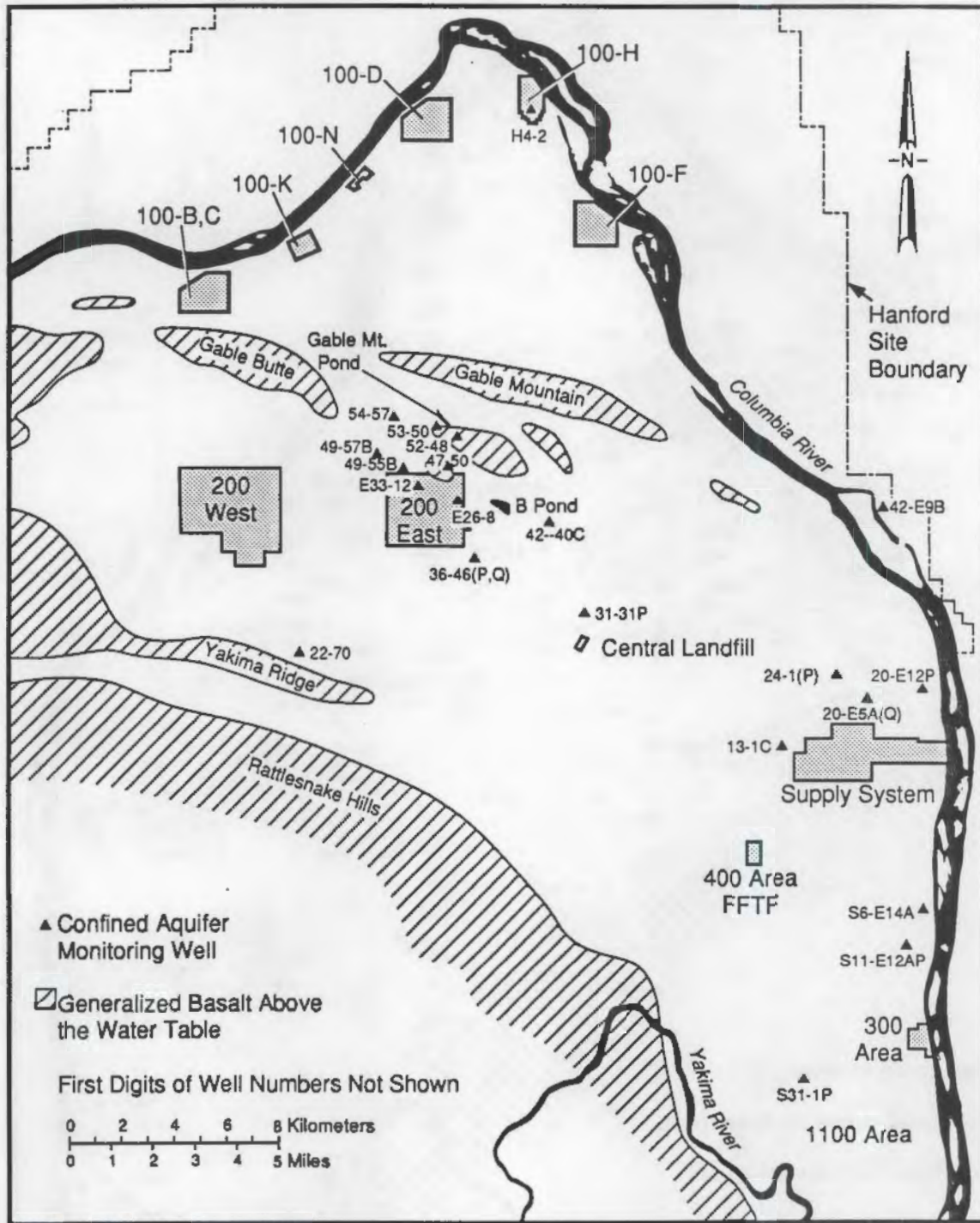
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5.0 600 AREA WELLS (contd)

Well Number	CERCLA COSAMPLE	RCRA/OPS COSAMPLE	Alk	Anions (NO3-)	3 H	GC-VOA	F-ICAP Metals	CN-	ABN ORG	90 Sr	99 Tc	Gamma Scan	Pu Am	129 I	U-CHEM	Alpha	Beta	COMMENTS
6-S38-E12A				SA	SA	SA	SA											Source
6-S38-E12B				SA	SA	SA	SA											Source
6-S40-E14				SA	SA	SA	SA											Drinking Water Supply
6-S41-E11				SA	SA	SA	SA											Source
6-S41-E12	1100	EH-1		SA	SA	SA	SA				A				SA			Source
6-S41-E13A	1100	EM-1		SA	SA	SA	SA				A				SA			Drinking Water Supply
6-S41-E13B	1100	EM-1		SA	SA	SA	SA				A				SA			Drinking Water Supply
6-S41-E13C	1100	EM-1		SA	SA	SA	SA				A				SA			Drinking Water Supply
6-S43-E12				A	A													Drinking Water Supply
6-S6-E14A				SA	SA													Boundary
6-S6-E4B				SA	SA													Plume
6-S6-E4D				Q	Q							Q			Q	Q	Q	DOH
6-S8-19				A	A	A	A											Plume



Hanford Site Unconfined Aquifer Ground-Water Monitoring Well Map



Hanford Site Confined Aquifer Ground-Water Monitoring Well Map

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